

Scenario A UHF

TV Band Device Configuration

**METRIC SYSTEMS CORPORATION**

RAPTORXR
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:33:00
Uptime: 0d 1h 15m
Model: RaptorXR
Firmware: V4.0.0 043017
FCC ID: 5077391P

TV Band Device Configuration

Radio:	1	Status:	Up
FCC ID:	2ABCU-50739	Enable Radio?	☐ No
Serial Number:	00001	Start Radio on Startup?	☐
Transmission Line Loss (dB):	3	Receive Frequency?	Channel 44 653 MHz
Height Above Ground Lvl (m):	30	Apply Changes	
Antenna Gain:	12 dBi : EIR 36		

Location Information
Latitude (degrees): 35.775
Longitude (degrees): -106.24555
Channel List: No available channels
 Refresh Rate: 5 Minutes

Contact information
First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Registrar information
First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Scenario A VHF (cannot select channel 13)

TV Band Device Configuration

**METRIC SYSTEMS CORPORATION**

RAPTORXR
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:04:47
Uptime: 0d 0h 47m
Model: RaptorXR
Firmware: V4.0.0 043017
FCC ID: 5077391P

TV Band Device Configuration

Radio:	1	Status:	Down
FCC ID:	2ABCU-50739	Enable Radio?	☐ No
Serial Number:	00001	Start Radio on Startup?	☐
Transmission Line Loss (dB):	3	Receive Frequency?	Channel 44 653 MHz
Height Above Ground Lvl (m):	30	Apply Changes	
Antenna Gain:	12 dBi : EIR 36		

Location Information
Latitude (degrees): 38.73829
Longitude (degrees): -108.887
Channel List: Select a channel from the list

Channel 9 | 189 MHz
Channel 10 | 195 MHz
Channel 14 | 473 MHz
Channel 16 | 485 MHz
Channel 23 | 527 MHz
Channel 24 | 533 MHz
Channel 29 | 563 MHz
Channel 30 | 569 MHz
Channel 31 | 575 MHz
Channel 33 | 587 MHz
Channel 34 | 593 MHz
Channel 35 | 599 MHz
Channel 51 | 695 MHz

 Refresh Rate: 5 Minutes

Contact information
First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Registrar information
First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Scenario B (UHF) (cannot select channel 23)

TV Band Device Configuration

http://10.0.0.213/rvbdConfig.html

METRIC SYSTEMS CORPORATION **RAPTORXR**
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:06:54
Uptime: 0d 0h 49m
Model: RaptorXR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin
Tools
Radio Control
Video Control

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi EIR 16

Status: Down
Enable Radio? No
Start Radio on Startup?
Receive Frequency? Channel 44 | 653 MHz
Apply Changes

Location Information

Latitude (degrees): 43.80102
Longitude (degrees): -111.778
Channel List: Select a channel from the list
Get Available Channels
Channel 10 | 195 MHz
Channel 14 | 473 MHz
Channel 15 | 479 MHz
Channel 19 | 503 MHz
Channel 20 | 509 MHz
Channel 25 | 539 MHz
Channel 26 | 545 MHz
Channel 30 | 569 MHz
Channel 33 | 587 MHz
Channel 34 | 593 MHz
Channel 40 | 629 MHz
Channel 41 | 635 MHz
Channel 45 | 659 MHz
Channel 46 | 665 MHz
Channel 47 | 671 MHz
Channel 48 | 677 MHz
Channel 49 | 683 MHz
Channel 50 | 689 MHz

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

Contact Information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7890
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Point Information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario B (VHF) (cannot select channel 11)

TV Band Device Configuration

http://10.0.0.213/rvbdConfig.html

METRIC SYSTEMS CORPORATION **RAPTORXR**
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:08:05
Uptime: 0d 0h 50m
Model: RaptorXR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin
Tools
Radio Control
Video Control

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi EIR 16

Status: Down
Enable Radio? No
Start Radio on Startup?
Receive Frequency? Channel 44 | 653 MHz
Apply Changes

Location Information

Latitude (degrees): 35.66218
Longitude (degrees): -117.604
Channel List: Select a channel from the list
Get Available Channels
Channel 25 | 539 MHz
Channel 26 | 545 MHz
Channel 27 | 551 MHz
Channel 28 | 557 MHz
Channel 41 | 635 MHz

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

Contact Information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Point Information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario C (channel 28 missing)

TV Band Device Configuration

http://10.0.0.213/tvbdConfig.html

METRIC SYSTEMS CORPORATION
RAPTORXR
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 16:00:39
Uptime: 0d 1h 43m
Model: RaptorXR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin
Tools
Radio Control
Video Control

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi : EIR 36

Status: Down
Enable Radio? No
Start Radio on Startup? ☐
Receive Frequency? Channel 44 | 653 Mhz
Apply Changes

Location Information

Latitude (degrees): 41.890417
Longitude (degrees): -87.623694
Channel List: Select a channel from the list
Get Available Channels Refresh Rate: 5 Minutes

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Registrant information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario D/E

TV Band Device Configuration

http://10.0.0.213/tvbdConfig.html

METRIC SYSTEMS CORPORATION
RAPTORXR
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:46:04
Uptime: 0d 1h 28m
Model: RaptorXR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin
Tools
Radio Control
Video Control

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi : EIR 36

Status: Down
Enable Radio? No
Start Radio on Startup? ☐
Receive Frequency? Channel 44 | 653 Mhz
Apply Changes

Location Information

Latitude (degrees): 38.954722
Longitude (degrees): -77.004722
Channel List: No available channels
Get Available Channels Refresh Rate: 5 Minutes

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Registrant information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario G

TV Band Device Configuration

http://10.0.0.213/rvbdConfig.html

METRIC SYSTEMS CORPORATION **RAPTORXR**
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:49:36
Uptime: 0d 1h 32m
Model: RaptorXR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin »
Tools »
Radio Control »
Video Control »

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi : EIR 36

Status: Down
Enable Radio? No
Start Radio on Startup? ☐
Receive Frequency? Channel 44 | 653 Mhz
Apply Changes

Location Information

Latitude (degrees): 32.608179
Longitude (degrees): -116.969585
Channel List: Select a channel from the list
Get Available Channels Refresh Rate: 5 Minutes

Channel 12 207 Mhz
Channel 13 213 Mhz
Channel 14 473 Mhz
Channel 16 485 Mhz
Channel 44 653 Mhz
Channel 45 659 Mhz
Channel 46 665 Mhz
Channel 47 671 Mhz

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NY
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Registrant information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario H

TV Band Device Configuration

http://10.0.0.213/rvbdConfig.html

METRIC SYSTEMS CORPORATION **RAPTORXR**
Whitespace Radio

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:33:30
Uptime: 0d 1h 16m
Model: RaptorXR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin »
Tools »
Radio Control »
Video Control »

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi : EIR 36

Status: Up
Enable Radio? No
Start Radio on Startup? ☐
Receive Frequency? Channel 44 | 653 Mhz
Apply Changes

Location Information

Latitude (degrees): 35.775
Longitude (degrees): -106.24555
Channel List: No available channels
Get Available Channels Refresh Rate: 5 Minutes

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NY
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Registrant information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario I

TV Band Device Configuration

http://10.0.0.213/tvbdConfig.html

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METRIC SYSTEMS CORPORATION **RAPTORXR** **Whitespace Radio**

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:36:17
Uptime: 0d 1h 18m
Model: RaptorXR
Firmware: V4.0.0 043017
FCC ID: 5077391P

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TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi EIR 36

Status:
Enable Radio? No
Start Radio on Startup?
Receive Frequency? Channel 44 | 653 Mhz
Apply Changes

Location Information

Latitude (degrees): 40.78698
Longitude (degrees): -119.206486
Channel List:
Get Available Channel
Select a channel from the list
Channel 25 | 539 Mhz
Channel 26 | 545 Mhz
Channel 27 | 551 Mhz
Channel 28 | 557 Mhz
Channel 29 | 563 Mhz
Channel 30 | 569 Mhz
Channel 31 | 575 Mhz
Channel 32 | 581 Mhz
Channel 33 | 587 Mhz
Channel 34 | 593 Mhz
Channel 35 | 599 Mhz
Channel 39 | 623 Mhz
Channel 40 | 629 Mhz
Channel 41 | 635 Mhz
Channel 42 | 641 Mhz
Channel 43 | 647 Mhz
Channel 44 | 653 Mhz
Channel 45 | 659 Mhz
Channel 46 | 665 Mhz
Channel 47 | 671 Mhz

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apt
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7891
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Installer Information

First Name: John
Last Name: Clark
Identification: MSC
RB: General
RB: Inquiries
3055 Enterprise Cour
Addr 2:
Vista
CA
92081
Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

Scenario K

TV Band Device Configuration

http://10.0.0.213/tvbdConfig.html

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METRIC SYSTEMS CORPORATION **RAPTORXR** **Whitespace Radio**

Node: RaptorXR-213
Date: 05-04-2017
Time: 15:40:50
Uptime: 0d 1h 23m
Model: RaptorXR
Firmware: V4.0.0 043017
FCC ID: 5077391P

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Radio Control >
Video Control >

TV Band Device Configuration

Radio: 1
FCC ID: 2ABC-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi EIR 36

Status:
Enable Radio? No
Start Radio on Startup?
Receive Frequency? Channel 44 | 653 Mhz
Apply Changes

Location Information

Latitude (degrees): 19.7071
Longitude (degrees): -155.0885
Channel List:
Get Available Channel
Select a channel from the list
Channel 7 | 177 Mhz
Channel 14 | 473 Mhz
Channel 15 | 479 Mhz
Channel 16 | 485 Mhz
Channel 25 | 539 Mhz
Channel 26 | 545 Mhz
Channel 30 | 569 Mhz
Channel 31 | 575 Mhz
Channel 32 | 581 Mhz
Channel 39 | 623 Mhz
Channel 40 | 629 Mhz
Channel 42 | 641 Mhz
Channel 43 | 647 Mhz
Channel 47 | 671 Mhz
Channel 48 | 677 Mhz
Channel 49 | 683 Mhz

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apt
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: test@test.com
Country: undefined

Installer Information

First Name: John
Last Name: Clark
Identification: MSC
RB: General
RB: Inquiries
3055 Enterprise Cour
Addr 2:
Vista
CA
92081
Phone: 760-560-0348
Email: jclark@metricsystems.com
Country: undefined

Register Device Unregister Device

12.10. Fixed Power level reduction

CLAUSES

- §15.711(c)(2)(ii)
- §15.715(e)

REQUIREMENT

Using system management software, make a channel availability request to the database. Using the spectrum analyzer, confirm that the WSD operates at no more than the maximum power level indicated by the database and that the power level cannot be set to a higher level than indicated by the database at that specific location. If the device cannot reduce power, it must cease operation.

TEST PROCEDURE

- Create a successful registration with the database
- Transmit at desired channel
- Confirm with spectrum analyzer that the EUT does not operate more than the max power level indicated by the database.
- Confirm power level cannot be set higher than the level indicated by the database

RESULTS

Test Results			
Pass	Fail	Tested By	Test Date
☒	☐	37699 CS	05/03/17

Successful registration, Channel availability and maximum allowed Power level

TV Band Device Configuration

Node: RaptorXR-212
Date: 05-03-2017
Time: 12:01:17
Uptime: 0d 3h 16m
Model: Raptor-XR
Firmware: V4.4.0 043017
FCC ID: 5077391P

System Admin »
Tools »
Radio Control »
Video Control »

TV Band Device Configuration

Device Information

Radio: 1
FCC ID: 2ABCU-50739
Serial Number: 00001
Transmission Line Loss (dB): 3
Height Above Ground Lvl (m): 30
Antenna Gain: 12 dBi EIR 36

Location Information

Latitude (degrees): 33.144444
Longitude (degrees): -117.224444
Channel List:

Select a channel from the list:
Channel 14 | 473 MHz
Channel 15 | 479 MHz
Channel 16 | 485 MHz
Channel 28 | 557 MHz
Channel 45 | 659 MHz

Contact information

First Name: John
Last Name: Doe
Addr 1: 123 apple rd
Addr 2:
City: Anywhere
State: NJ
Zip Code: 08854
Mobile Phone: 123-456-7681
Work Phone: (123)456-9871
Email: jclark@metricsystems.com
Country: undefined

Radio Information

Status: Down
Enable Radio? Yes
Start Radio on Startup? ☒
Receive Frequency? Channel 44 | 653 MHz
Apply Changes

Installer Information

First Name: John
Last Name: Clark
Identification: MSC

General information

First Name: General
Last Name: Inquiries
Addr 1: 3055 Enterprise Cour
Addr 2:
City: Vista
State: CA
Zip Code: 92081
Mobile Phone: 760-560-0348
Work Phone: 760-560-0348
Email: jeclark@metricsystems.com
Country: undefined

