



849 NW State Road 45
Newberry, FL 32669 USA
Ph.: 888.472.2424 or
352.472.5500
Fax: 352.472.2030
Email: info@timcoengr.com
Website: www.timcoengr.com

FCC PART 15.247 & IC RSS-247 2.4 GHz FHSS TEST REPORT

Applicant	COBRA ELECTRONICS CORPORATION
Address	6500 WEST CORTLAND STREET
	CHICAGO IL 60707 USA
FCC ID	BBO29BT2K17
IC	906A-29BT2K17
Model Number	RB106
Product Description	BLUE TOOTH MODULE
Date Sample Received	9/26/2016
Final Test Date	9/29/2016
Tested By	Tim Royer
Approved By	Cory Leverett

Report Number	Version Number	Description	Issue Date
1949AUT16TestReport_	Rev1	Initial Issue	9/30/2016

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**



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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

Summary

The device under test does:

- Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669



Tested by:

Name and Title: Tim Royer Project Manager/Testing Technician

Date: 9/29/2016

Reviewed and approved by:

Name and Title: Cory Leverett, Engineering Technician

Date: 9/30/2016

Applicant: COBRA ELECTRONICS CORPORATION
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GENERAL INFORMATION
EUT Specification

Regulatory Standards	FCC Title 47 CFR Part 15.247 IC RSS-247 Issue 1 & RSS-GEN Issue 4		
FCC ID	BBO29BT2K17		
IC	906A-29BT2K17		
Model	RB106		
EUT Description	BLUE TOOTH MODULE		
Modulation Types	Mode 1: DH5 ; Basic Data Rate 1 Mbps		
	Mode 2: 2-DH5; Enhanced Data Rate 2 Mbps		
	Mode 3: 3-DH5; Enhanced Data Rate 3 Mbps		
Operating Frequency	TX: 2402 – 2480 MHz	RX: 2402 – 2480 MHz	
EUT Power Source	<input type="checkbox"/> 110–120Vac/50– 60Hz		
	<input checked="" type="checkbox"/> DC Power 13.6 VDC Nominal		
	<input type="checkbox"/> Battery Operated Exclusively		
Test Item	<input type="checkbox"/> Prototype	<input checked="" type="checkbox"/> Pre-Production	<input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed	<input checked="" type="checkbox"/> Mobile	<input type="checkbox"/> Portable
Antenna Connector	None (Temporary Connector Provided for Testing)		
Antenna	Integral PCB Chip		
Test Facility	Timco Engineering Inc. located at 849 NW State Road 45 Newberry, FL 32669 USA.		
Test Conditions	Temperature: 24-26°C Relative humidity: 50-65%		
Measurement Standard	ANSI C63.10-2013 ANSI C63.4-2014 FCC DA 00-705		
Test Exercise	Engineering Software was used to enable the modes of operation; all modes of modulation were tested.		

Test Supporting Equipment

Device	Manufacturer	Model	S/N	Supplied By	Used For
CB Radio	Cobra	29LX MAX	2	Applicant	Host for Module

Applicant: COBRA ELECTRONICS CORPORATION
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RESULTS SUMMARY

FCC Rule Part No.	IC Standard Ref.	Requirement	Test Item	Result
15.215 (c)	RSS-GEN 6.6	Occupied Bandwidth	99% Bandwidth	Pass
			20 dB Bandwidth	Pass
15.247(a,1)	RSS-247 § 5.1	FHSS Requirements	Channel Separation	Pass
			Hopping Sequence	Pass
			System Receiver Bandwidth	Pass
			Number of Hopping Channels	Pass
			Hopping Channel Occupancy Time	Pass
15.247(b,1) & (b,4)	RSS-247 § 5.4.2	Peak Power Output	Peak Power Output (Pconducted)	Pass
			Antenna Gain (EIRP)	Pass
15.247(d)	RSS-247 § 5.5	Unwanted Emissions	Bandedge	Pass
			Radiated Spurious	Pass

Notes:

Applicant: COBRA ELECTRONICS CORPORATION
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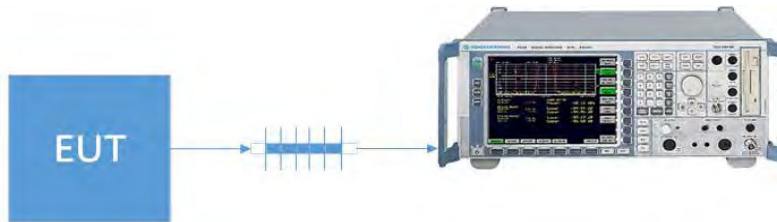
OCCUPIED BANDWIDTH

Rules Part No.: FCC 15.215(C), IC RSS 247 § 5.1.1

Requirements: 20 dB and 99% emission bandwidth reporting only, measurement is also used to determine limits for other requirements of FHSS transmitters.

Test Method: ANSI C63.10 § 6.9.2 Occupied bandwidth-20dB Relative procedure
ANSI C63.10 § 6.9.3 Occupied bandwidth-99% power procedure

Setup:



Test Data: **20 dB Occupied Bandwidth Measurement Table**

Tuned Frequency (MHz)	Mode 1 20 dB BW (MHz)	Mode 2 20 dB BW (MHz)	Mode 3 20 dB BW (MHz)
2402	0.825	1.29	1.25
2441	0.905	1.31	1.26
2480	0.904	1.23	1.27

Test Data: **99% Occupied Bandwidth Measurement Table**

Tuned Frequency (MHz)	Mode 1 99% BW (MHz)	Mode 2 99% BW (MHz)	Mode 3 99% BW (MHz)
2402	0.888	1.18	1.20
2441	0.883	1.19	1.18
2480	0.892	1.18	1.18

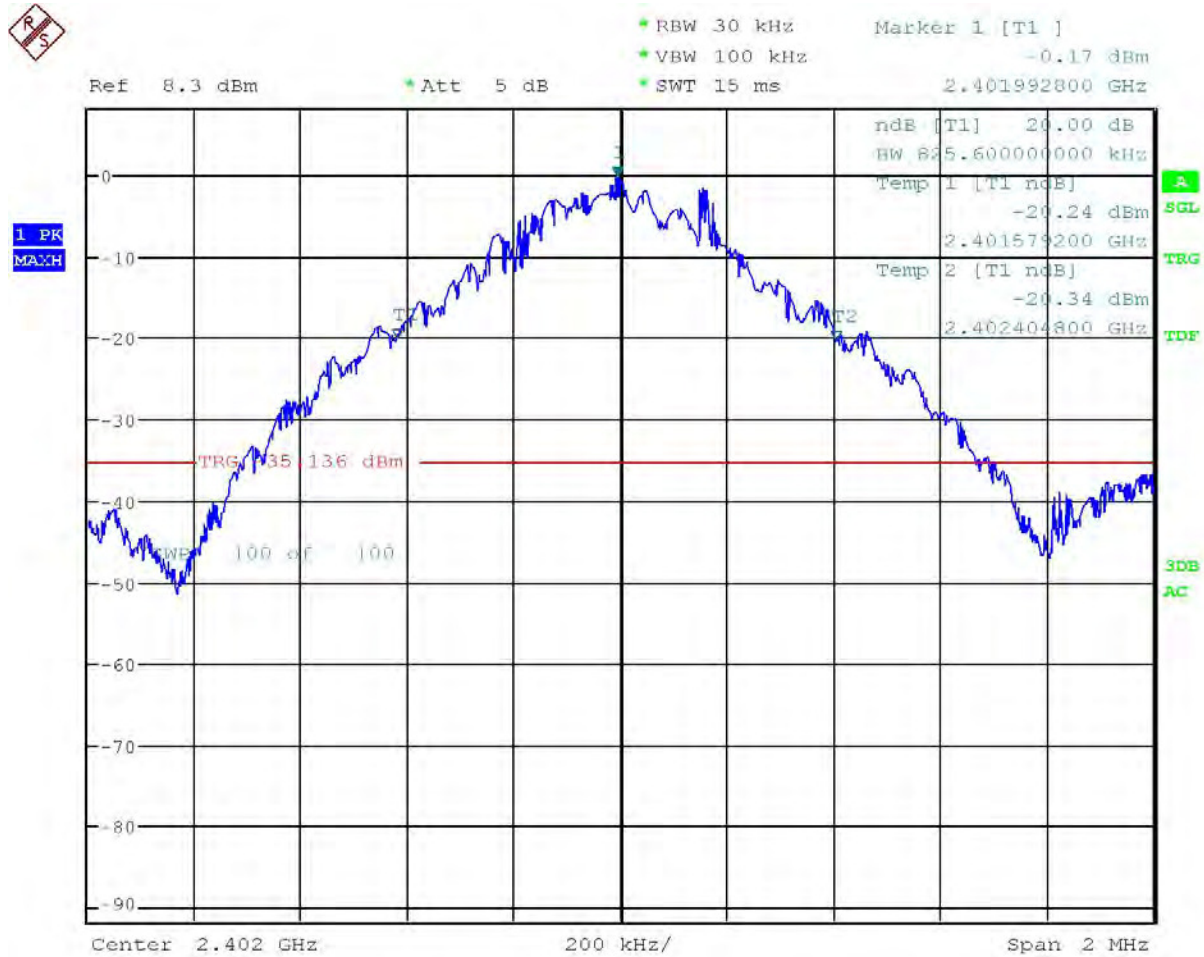
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
FCC ID: BBO29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 1 Low End of Band Plot



Date: 28.SEP.2016 14:02:31

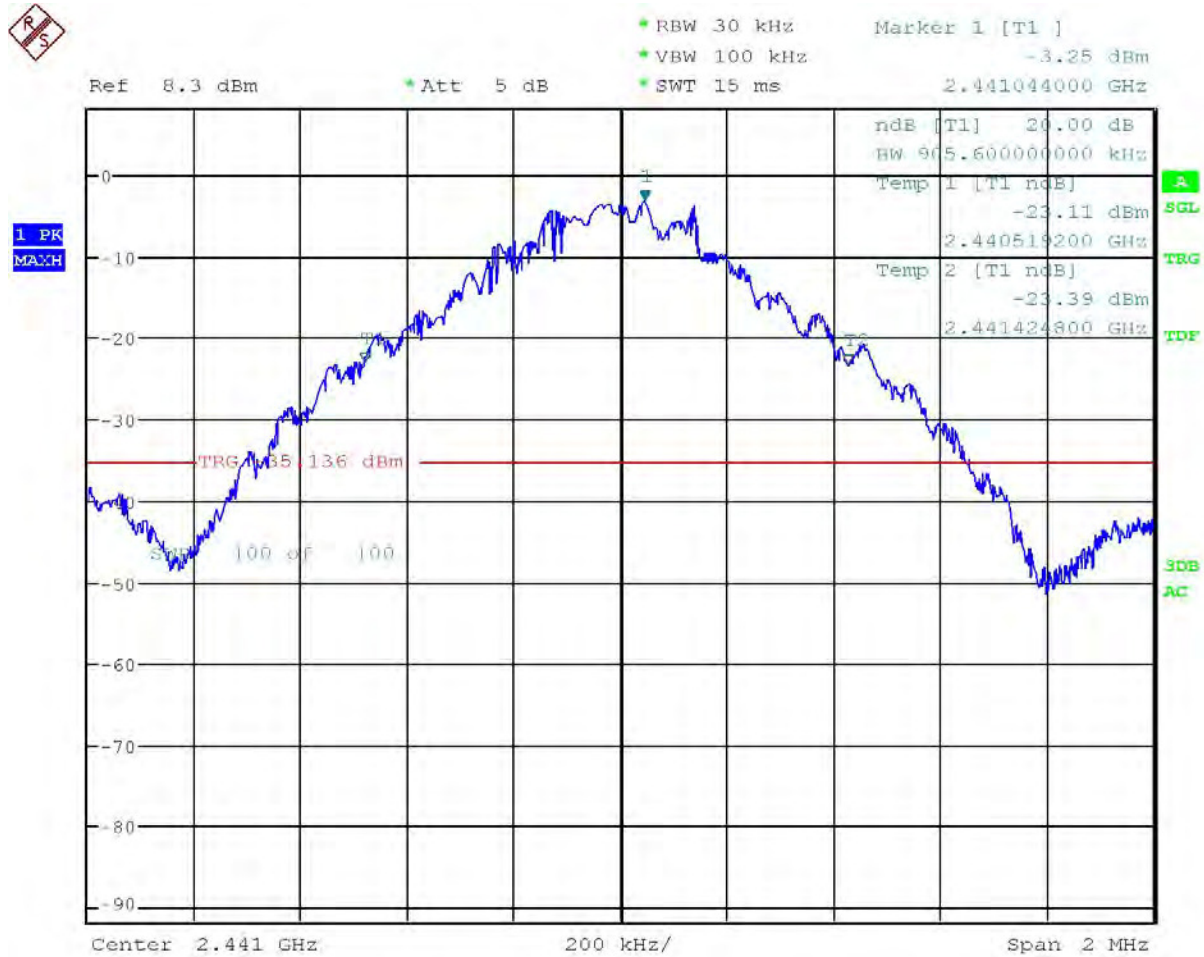
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 1 Middle of Band Plot



Date: 28.SEP.2016 14:13:45

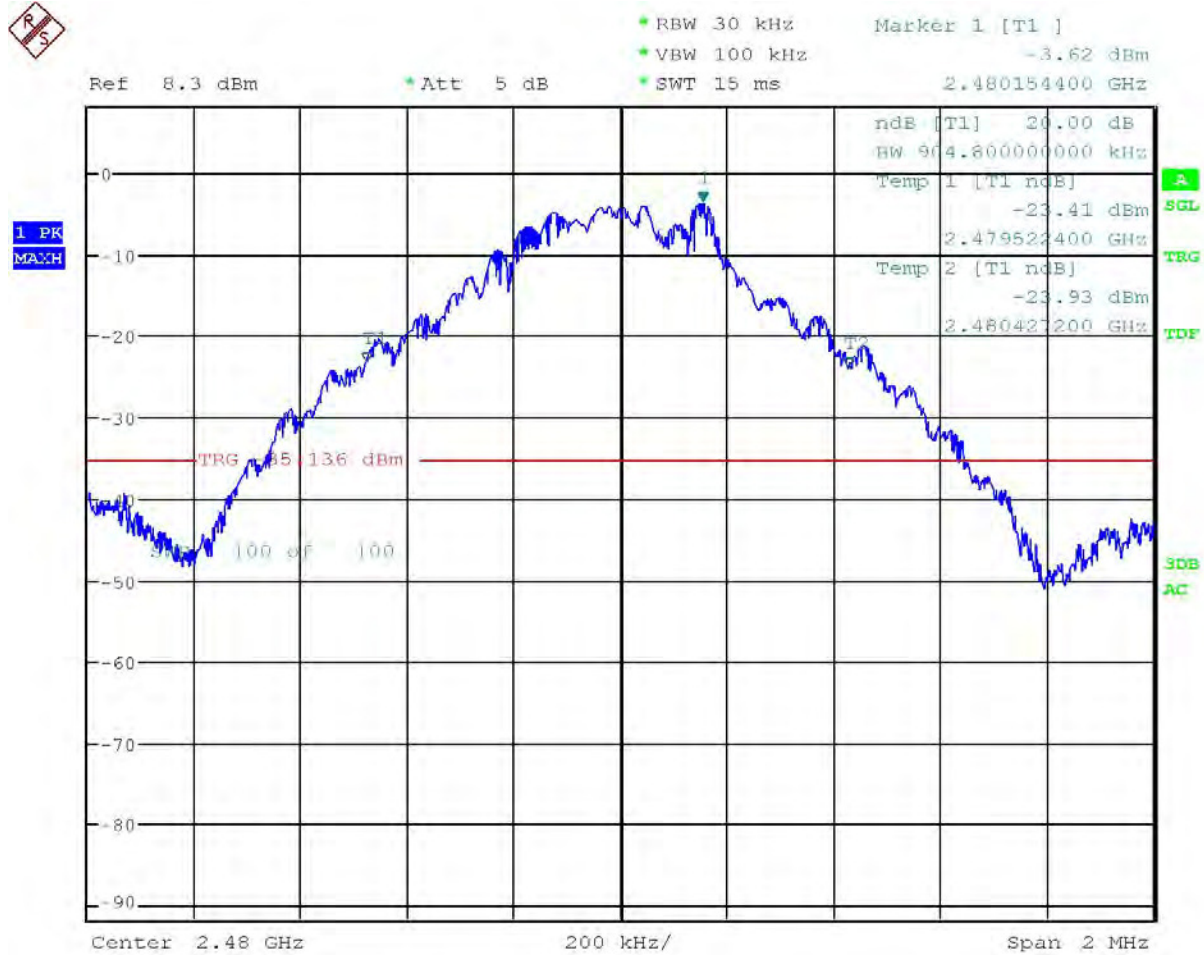
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 1 High end of Band Plot



Date: 28.SEP.2016 14:14:29

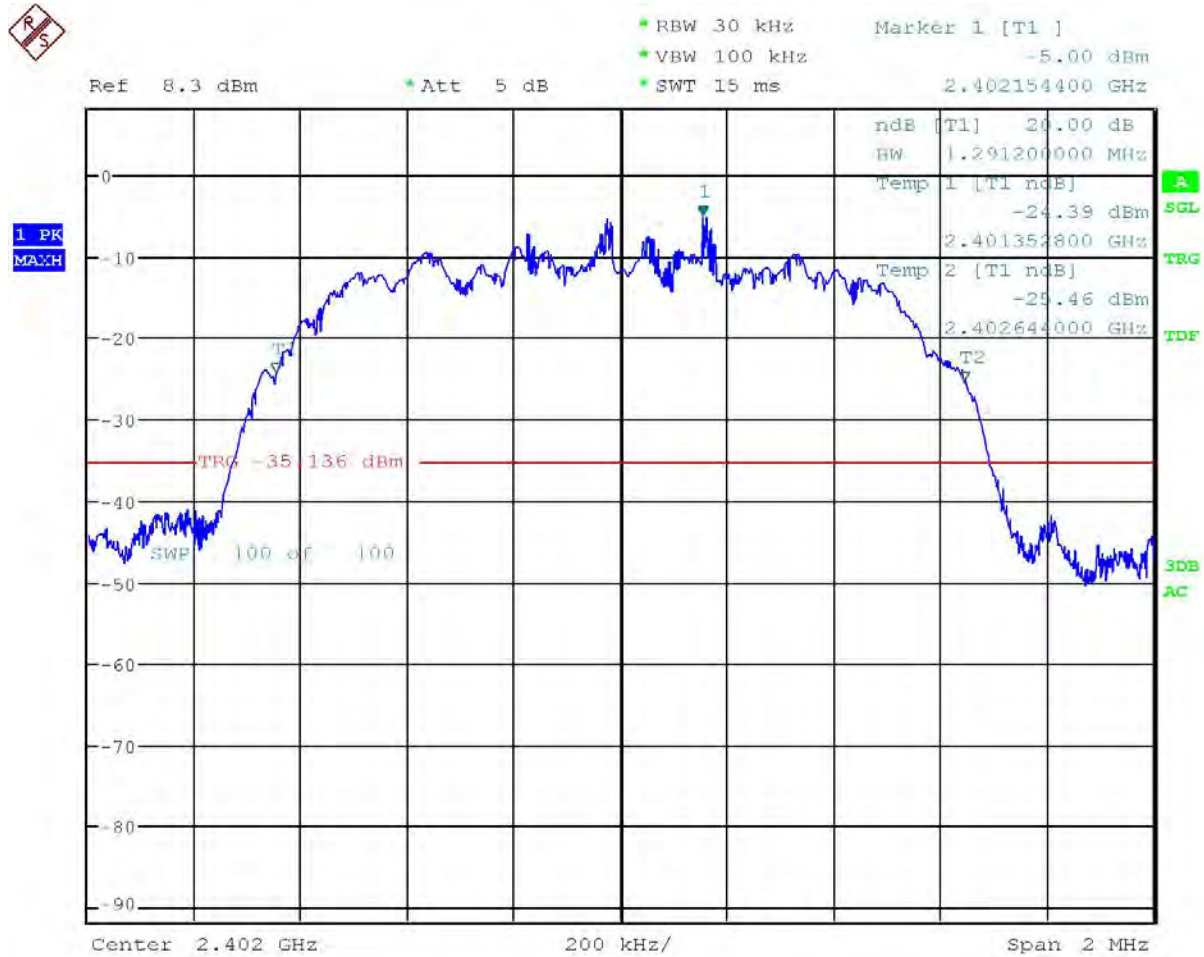
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 2 Low End of Band Plot



Date: 28.SEP.2016 14:23:05

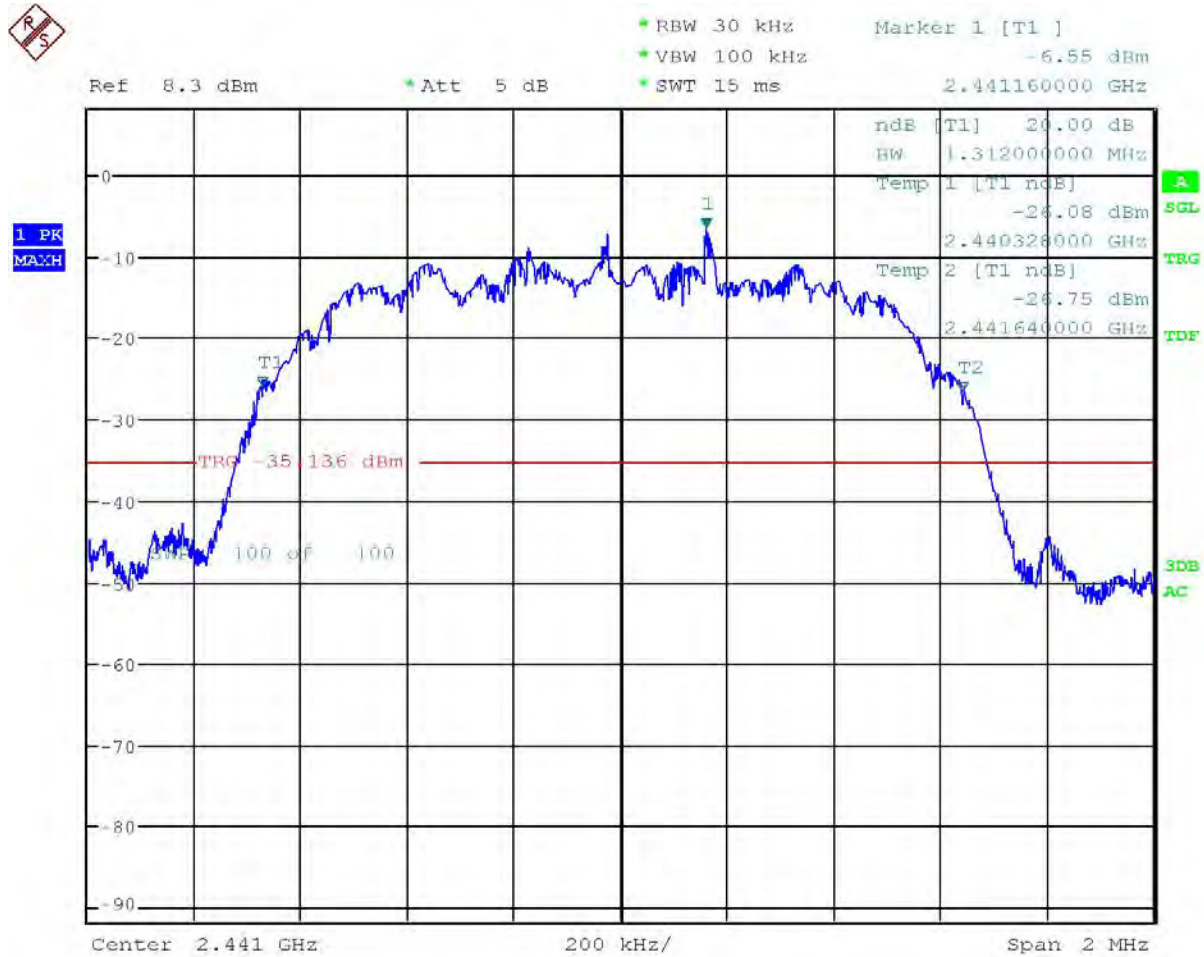
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 2 Middle of Band Plot



Date: 28.SEP.2016 14:24:19

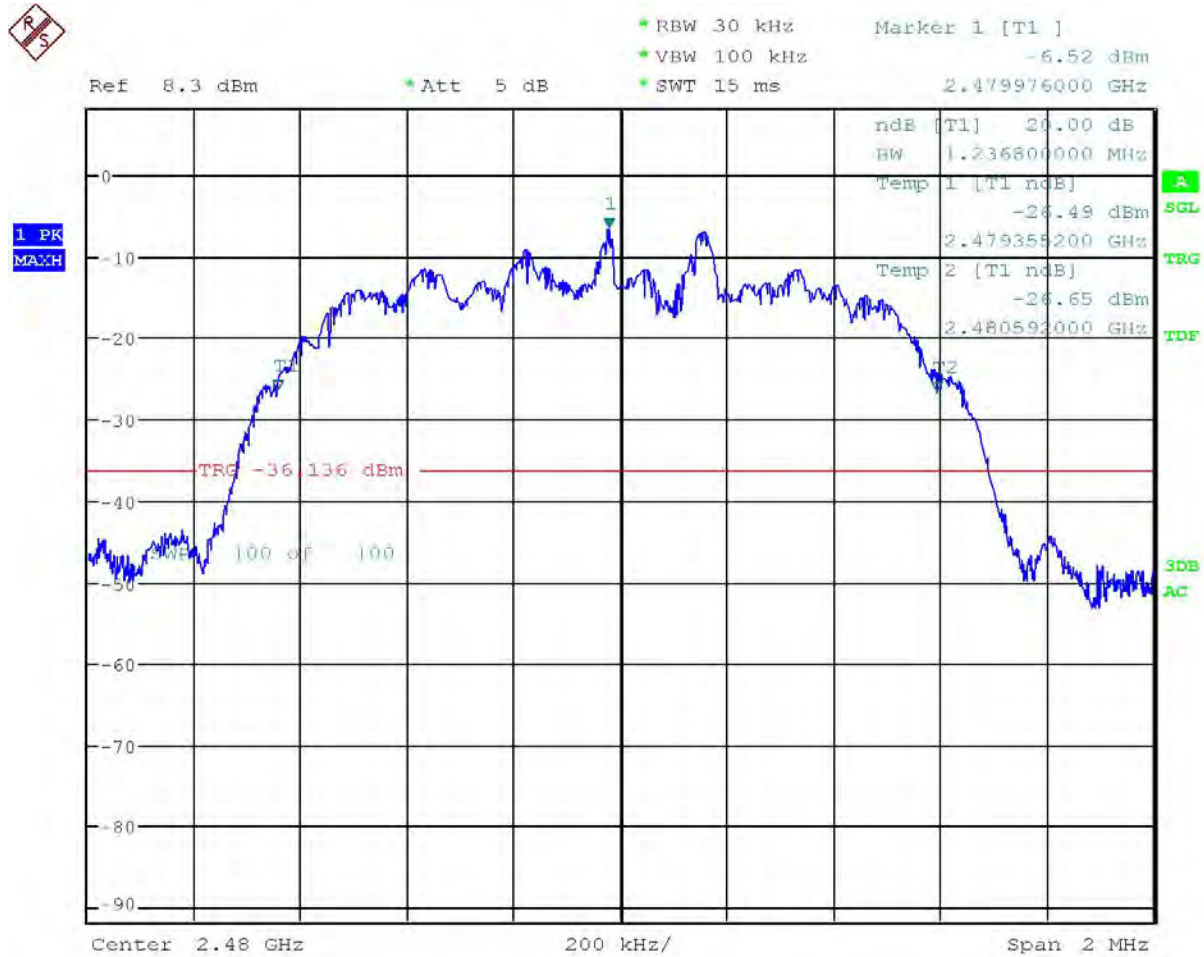
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 2 High end of Band Plot



Date: 28.SEP.2016 14:27:07

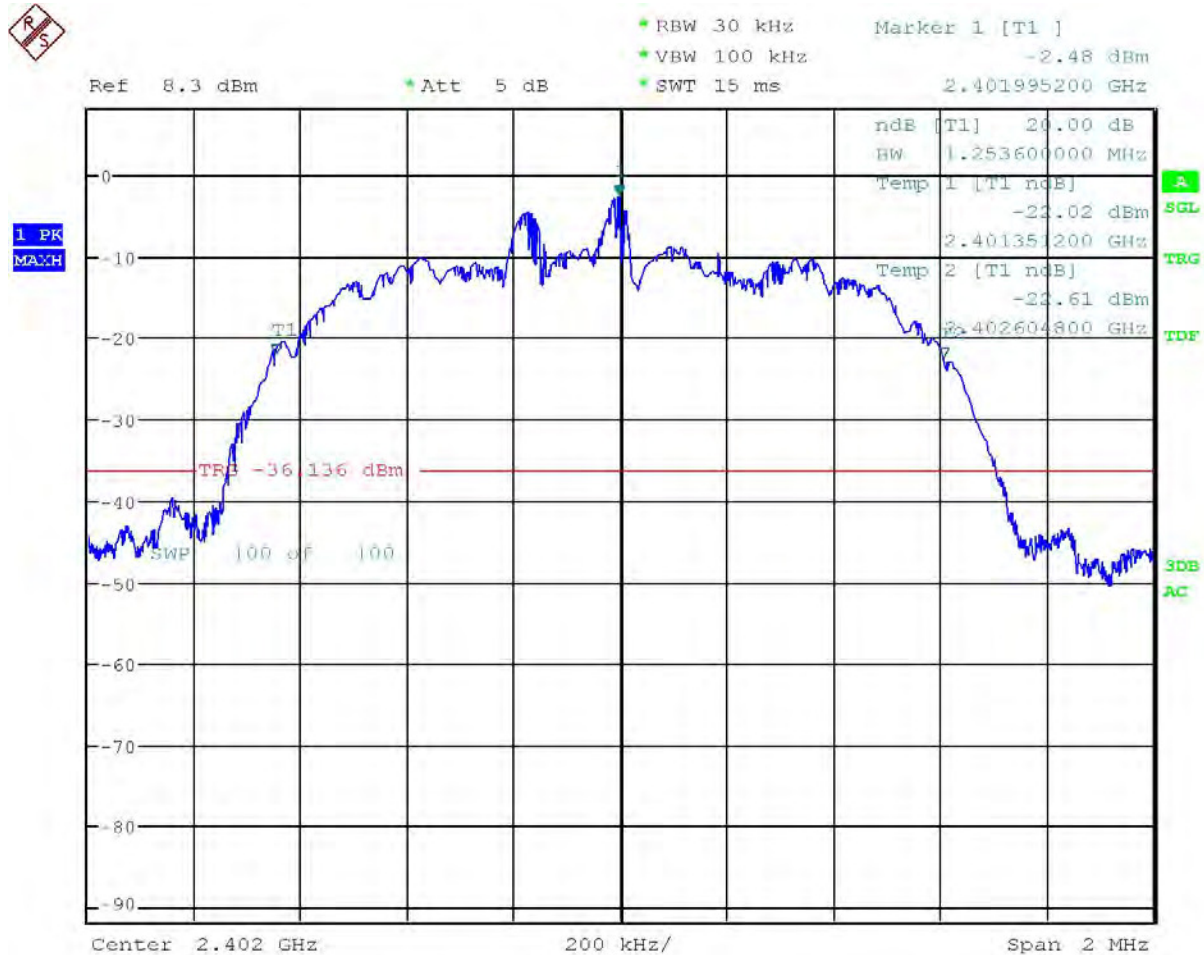
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 3 Low End of Band Plot



Date: 28.SEP.2016 14:28:22

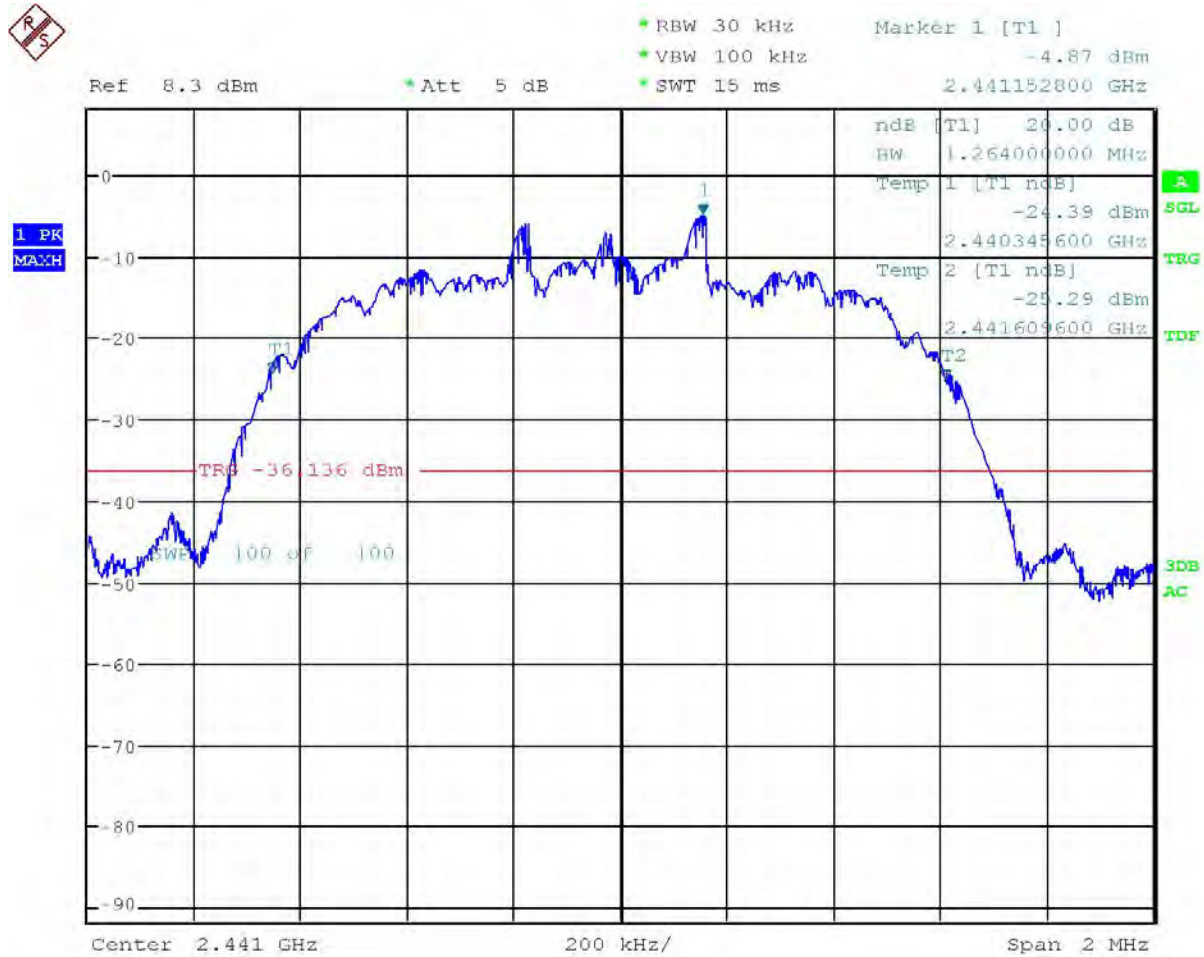
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 3 Middle of Band Plot



Date: 28.SEP.2016 14:30:34

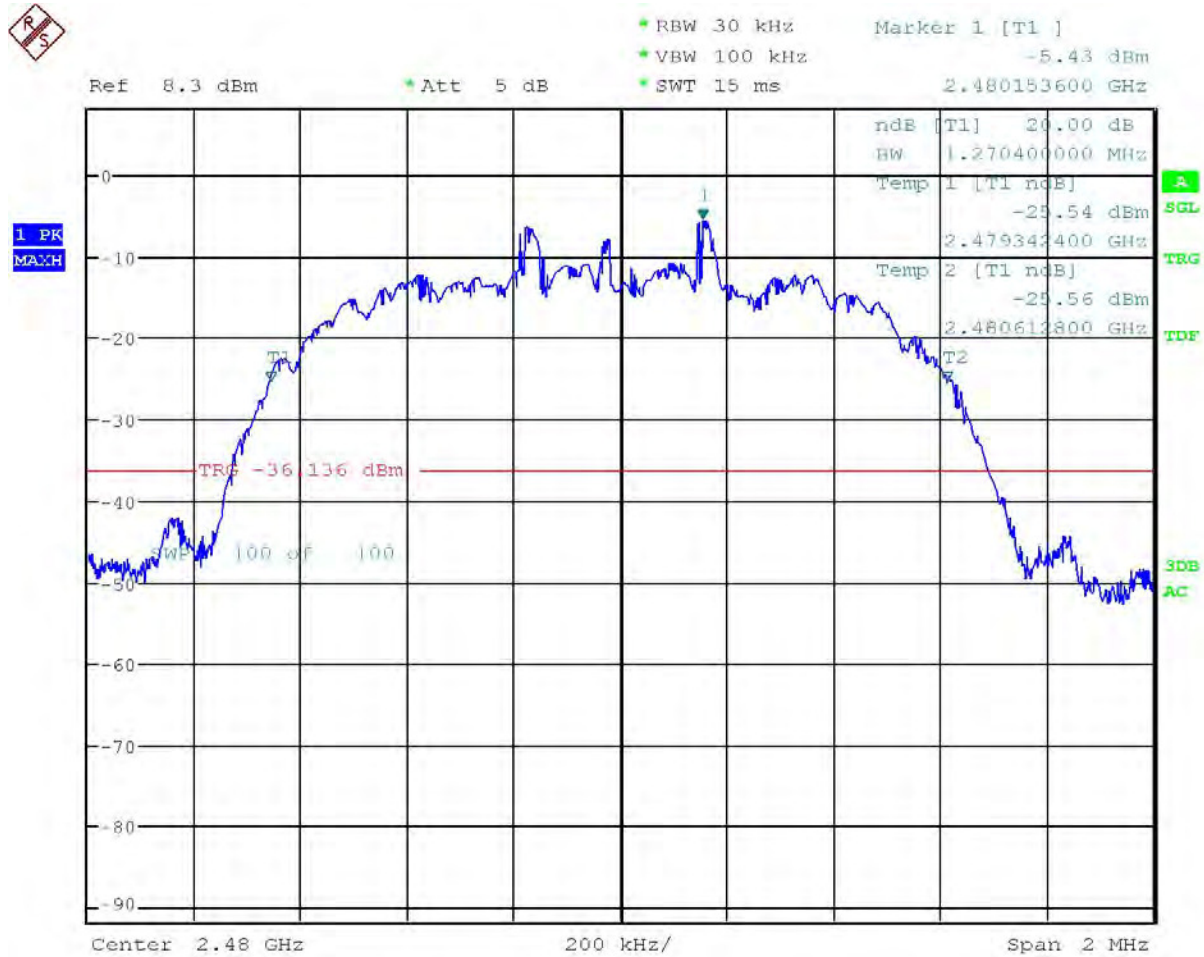
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 20 dB OBW Mode 3 High end of Band Plot



Date: 28.SEP.2016 14:31:17

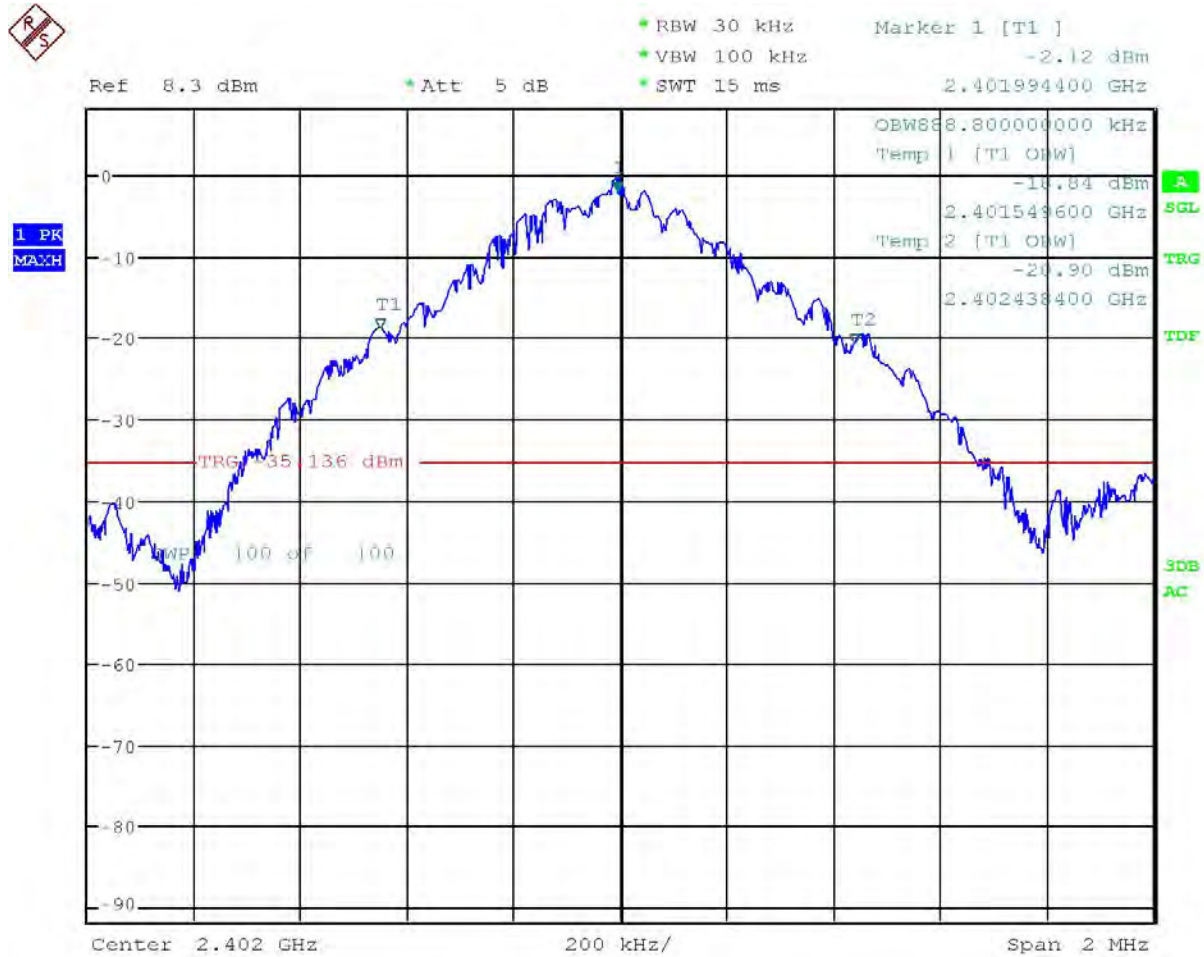
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 1 Low End of Band Plot



Date: 28.SEP.2016 13:59:18

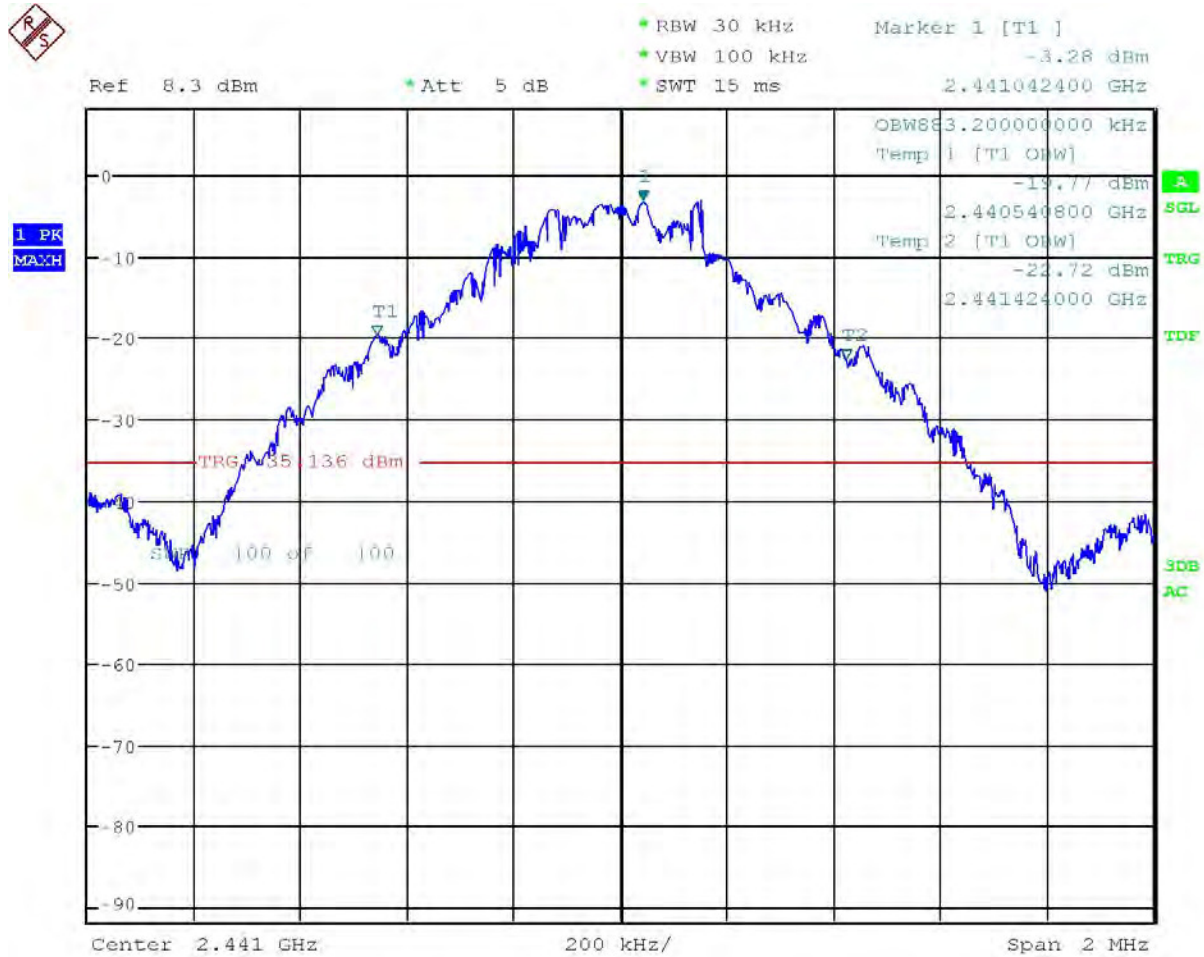
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 1 Middle of Band Plot



Date: 28.SEP.2016 14:04:48

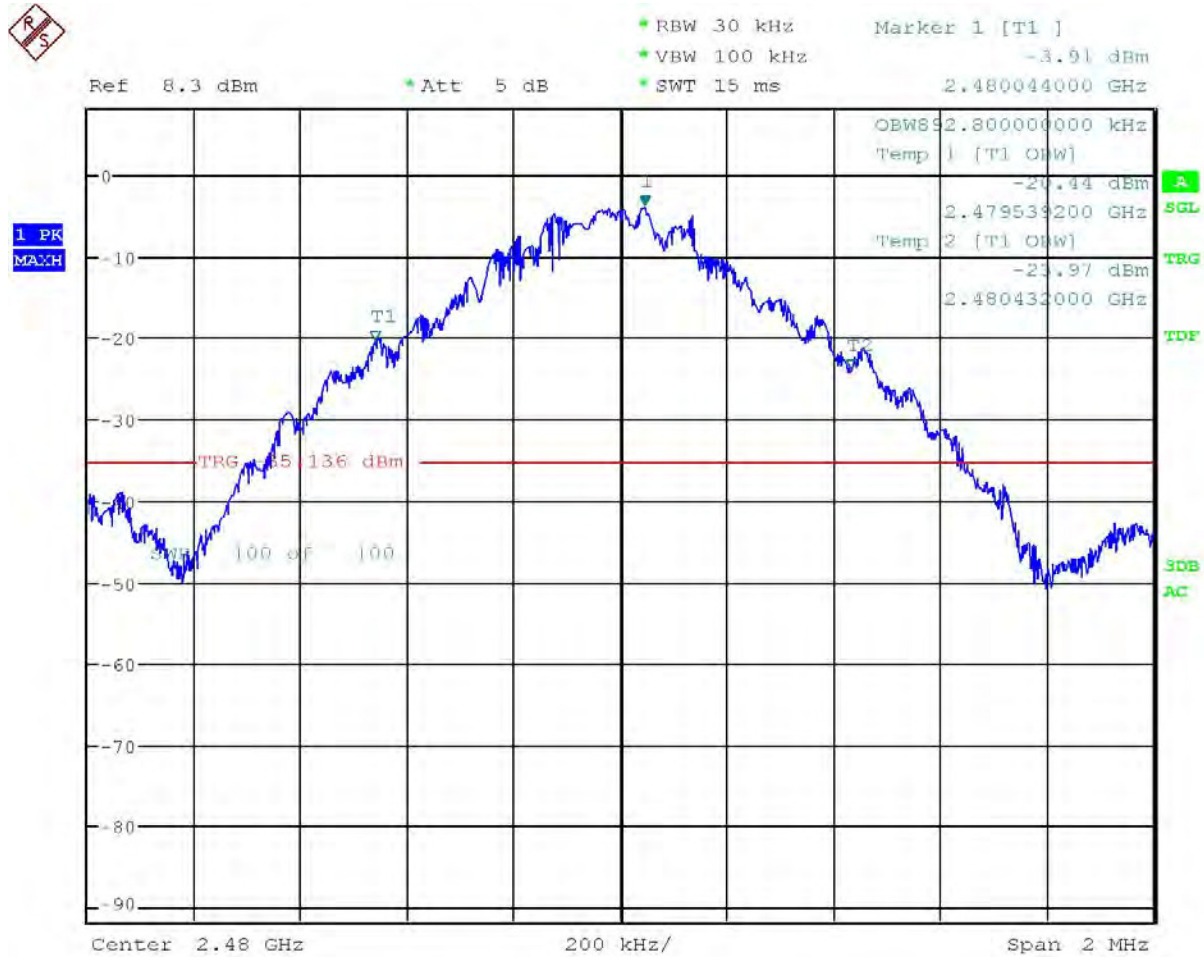
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 1 High end of Band Plot



Date: 28.SEP.2016 14:15:12

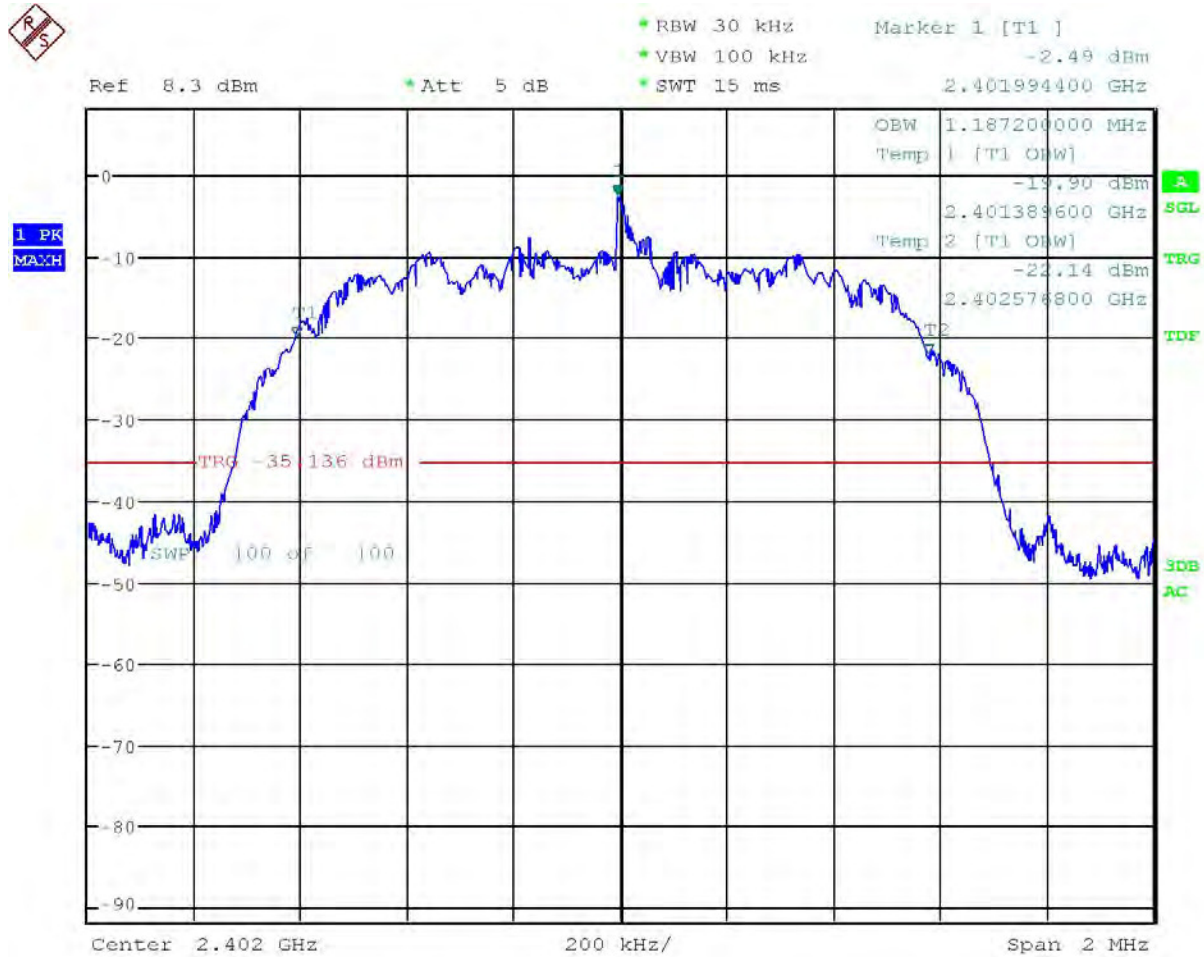
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 2 Low End of Band Plot



Date: 28.SEP.2016 14:21:38

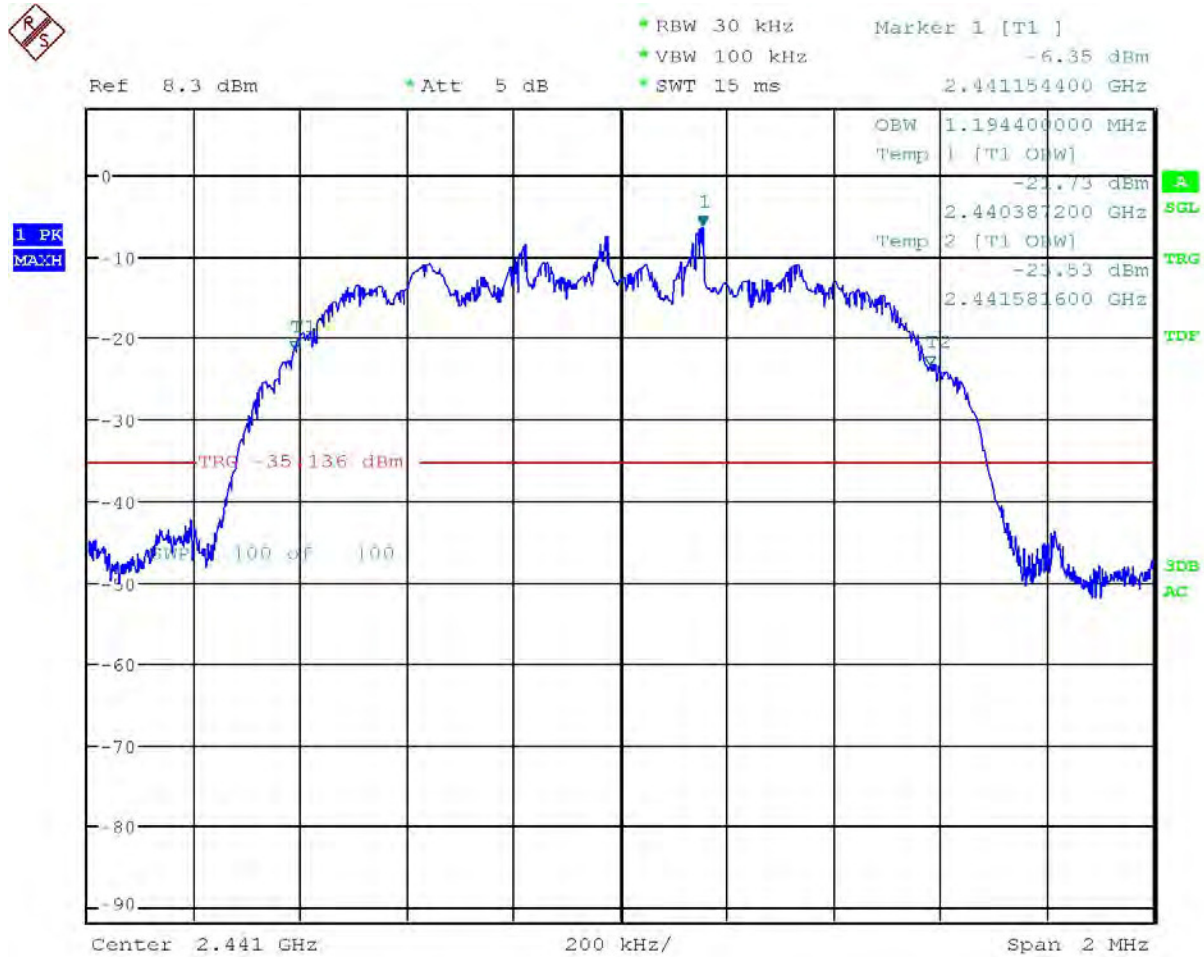
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 2 Middle of Band Plot



Date: 28.SEP.2016 14:24:55

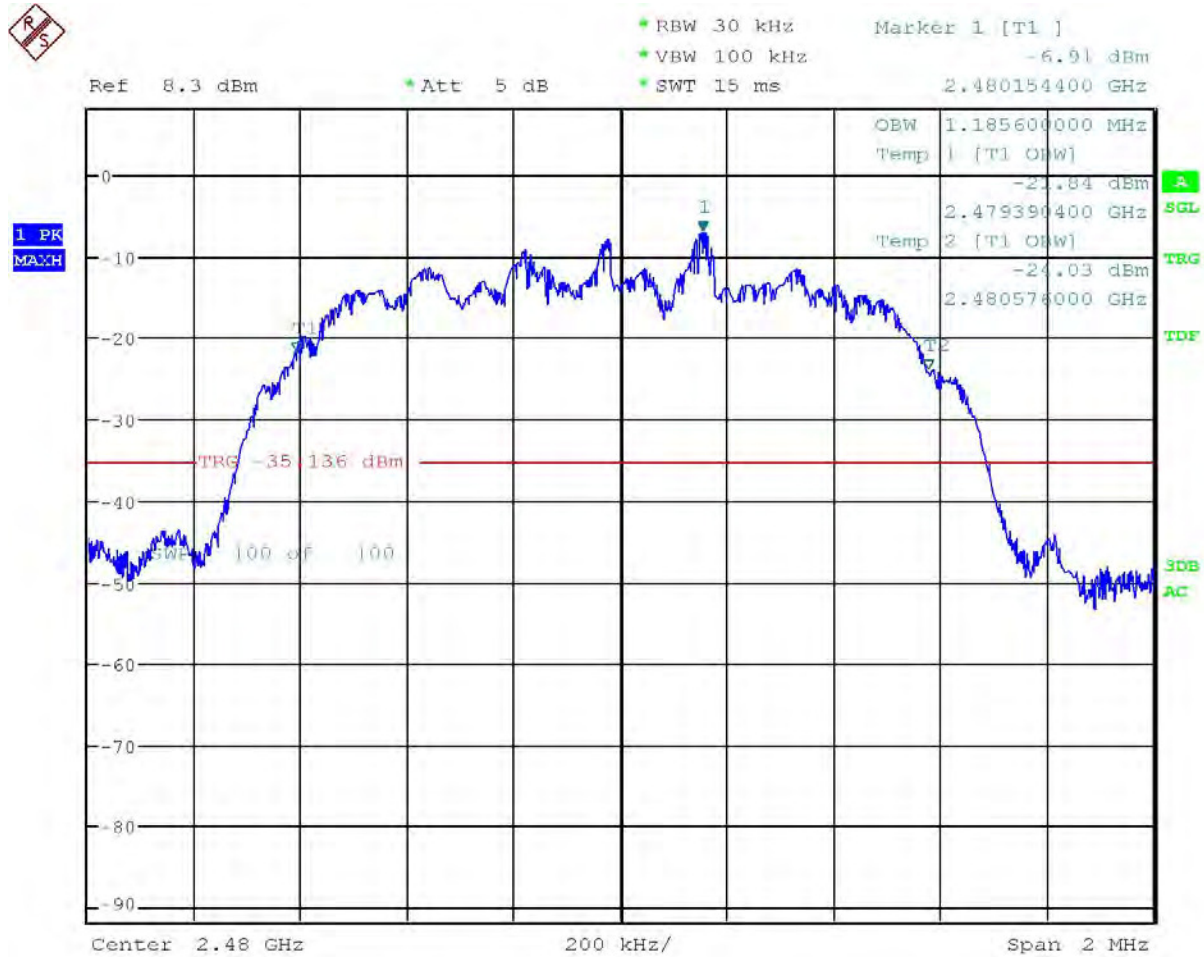
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 2 High end of Band Plot



Date: 28.SEP.2016 14:25:57

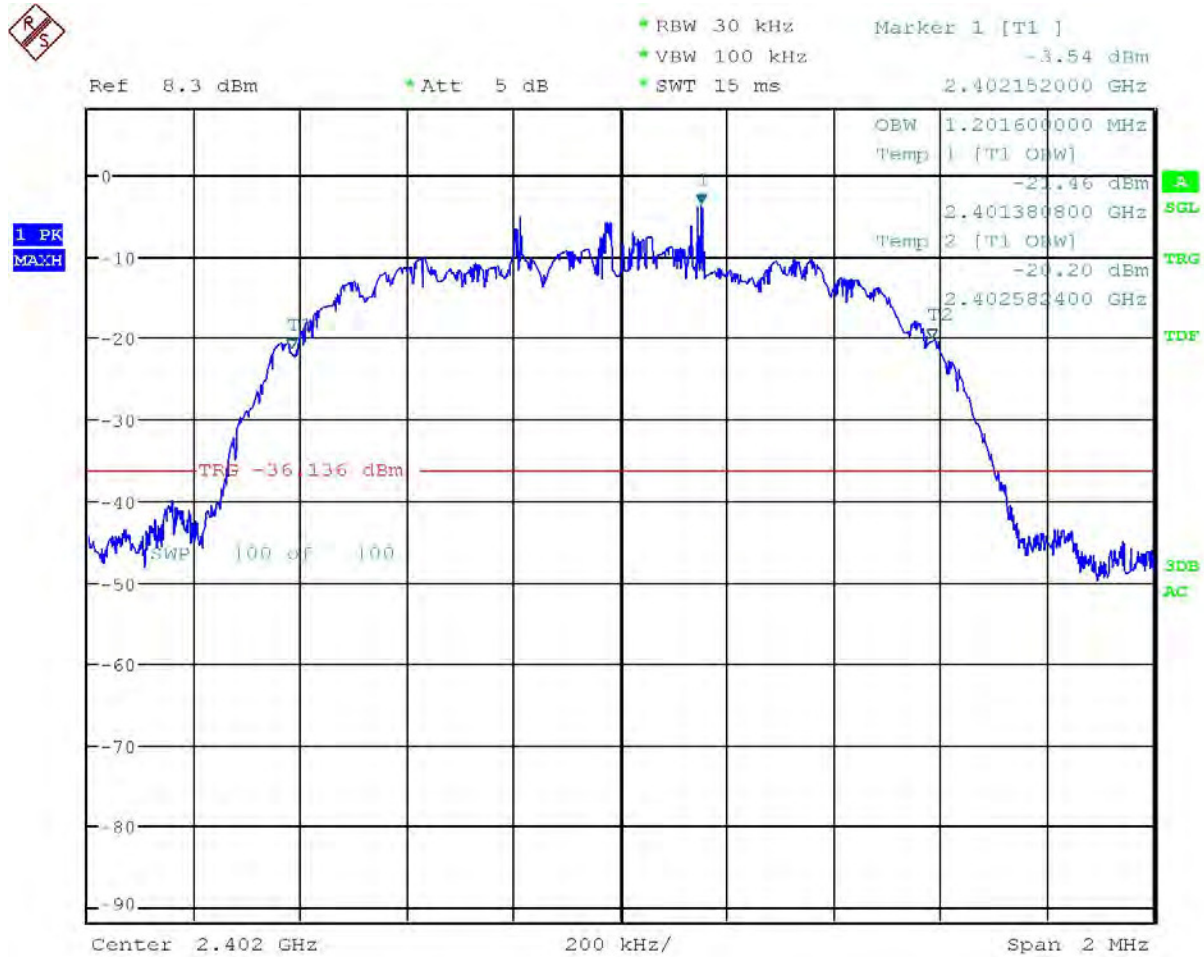
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 3 Low End of Band Plot



Date: 28.SEP.2016 14:29:09

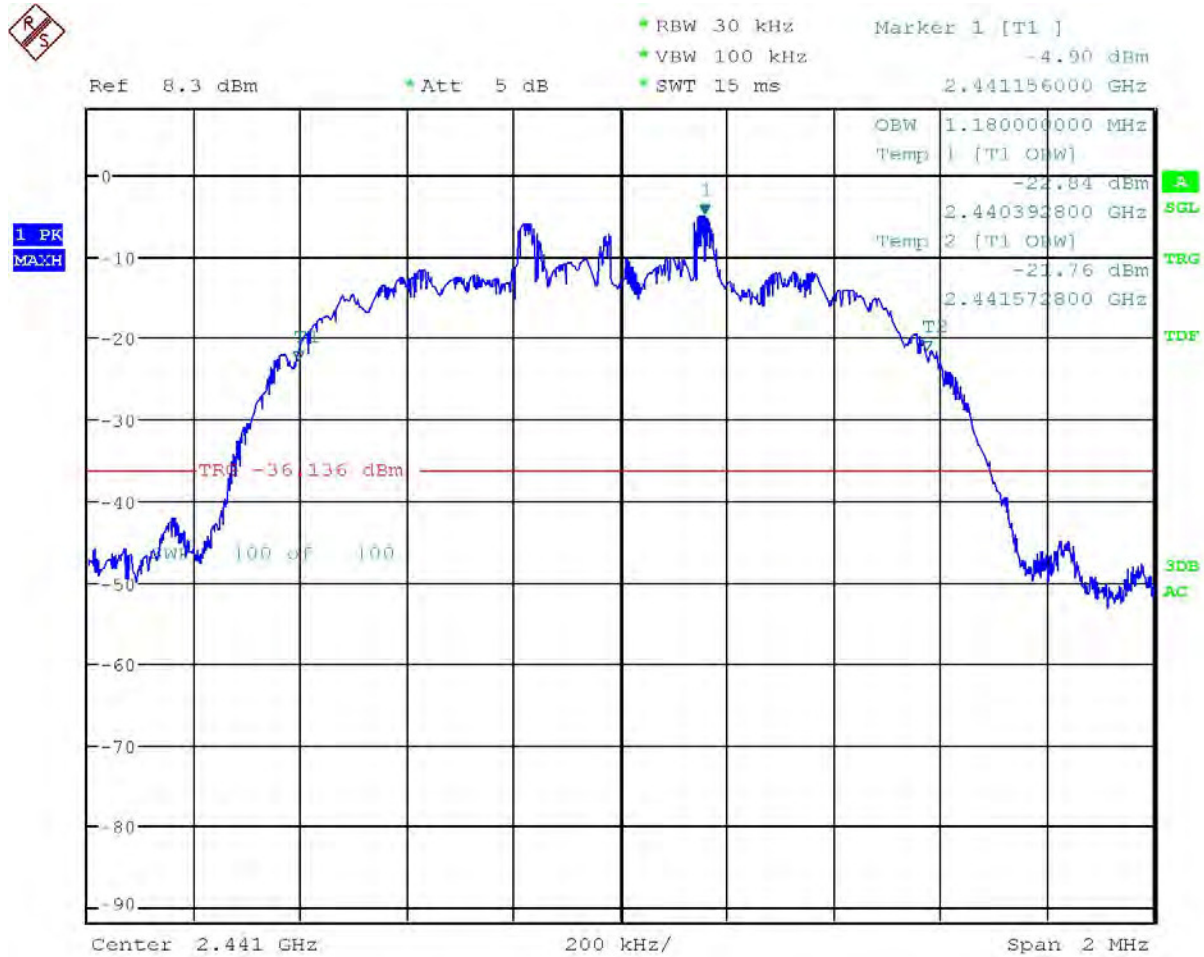
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 3 Middle of Band Plot



Date: 28.SEP.2016 14:30:01

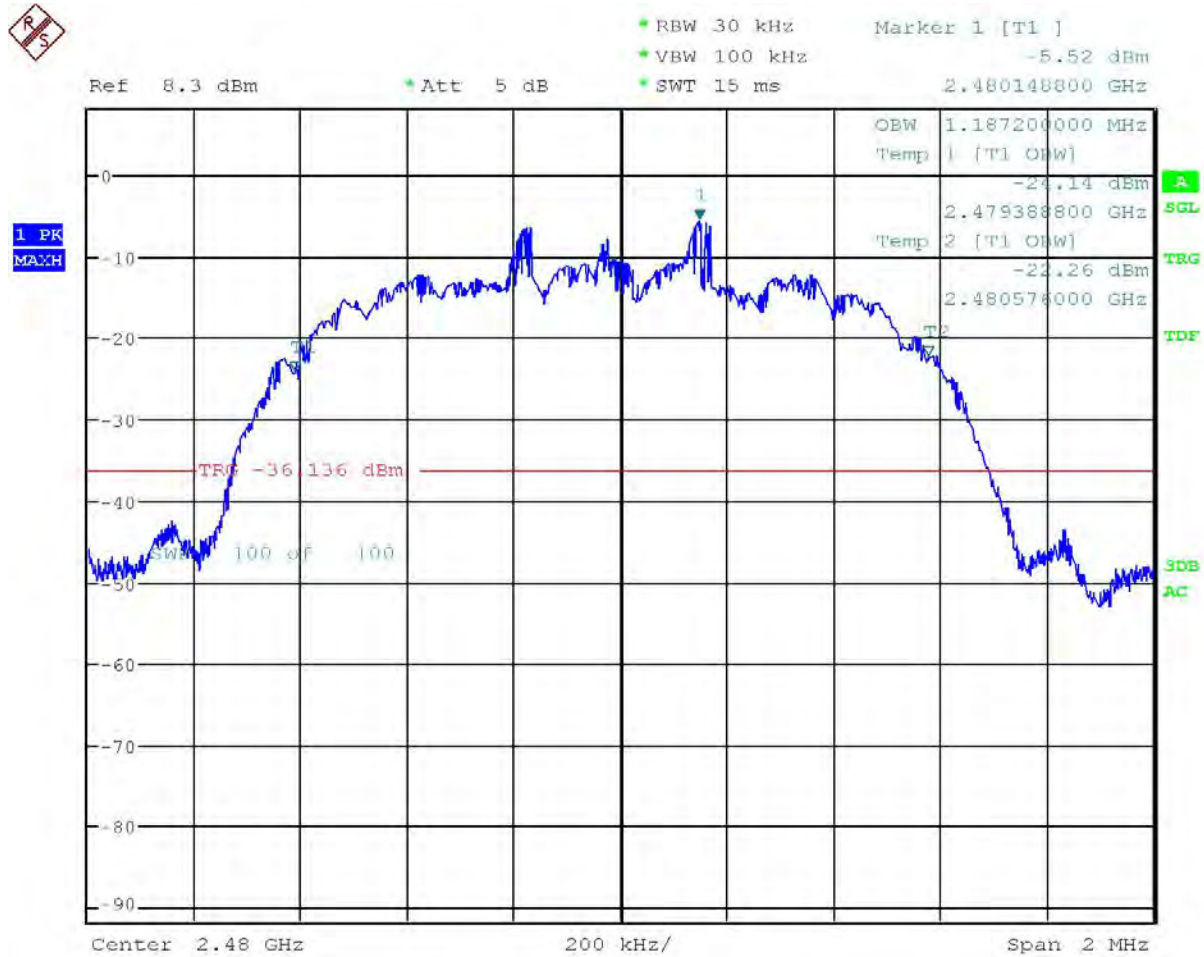
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
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OCCUPIED BANDWIDTH

Test Data: 99% OBW Mode 3 High end of Band Plot



Date: 28.SEP.2016 14:32:19

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
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FHSS REQUIREMENTS

Rules Part No.: FCC 15.247(a) (1), IC RSS 247 § 5.1.1, 5.1.2, 5.1.4

Requirements: **Channel Separation**

FHSSs operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two thirds of the -20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.

Dwell Time and Number of Hopping Channels

FHSSs operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

Hopping Sequence

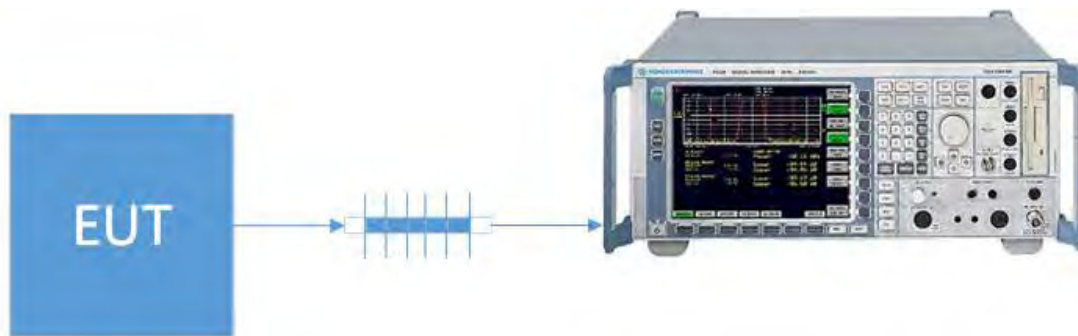
The hop set shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hop set, whereas the long-term distribution appears evenly distributed.

Receiver Input Bandwidth

The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Method: ANSI C63.10 § 7.8.2 Carrier frequency separation
 ANSI C63.10 § 7.8.3 Number of hopping frequencies
 ANSI C63.10 § 7.8.3 Time of Occupancy
 DA 00-705 § Pseudorandom Frequency Hopping Sequence
 DA 00-705 § Equal Hopping Frequency Use
 DA 00-705 § System Receiver Input Bandwidth

Setup:



FHSS REQUIREMENTS

Test Data: FHSS Channel Separation Measurement Table

Mode	Separation (KHz)	(2/3 of 20 dBBW) Limit (KHz)	Pass / Fail
1	1000	≥ 872	Pass
2	1000	≥ 872	Pass
3	1000	≥ 872	Pass

Test Data: Number of Hopping Channels Measurement Table

Mode	Number of channels	Limit	Pass / Fail
1	79	≥ 15	Pass
2	79	≥ 15	Pass
3	79	≥ 15	Pass

Test Data: Hopping Channel Occupancy Time Measurement Table

Mode	Dwell Time (Sec)	Limit (sec)	Pass / Fail
1	0.129	≤ 0.4	Pass
2	0.129	≤ 0.4	Pass
3	0.129	≤ 0.4	Pass

Test Data: FHSS Hopping Sequence and Receiver Bandwidth Verification

Requirement	Supporting Documentation	Pass / Fail
Pseudorandom Hopping Sequence	Operational Description provided by applicant	Pass
Equal Frequency Use		Pass
Receiver Input Bandwidth		Pass

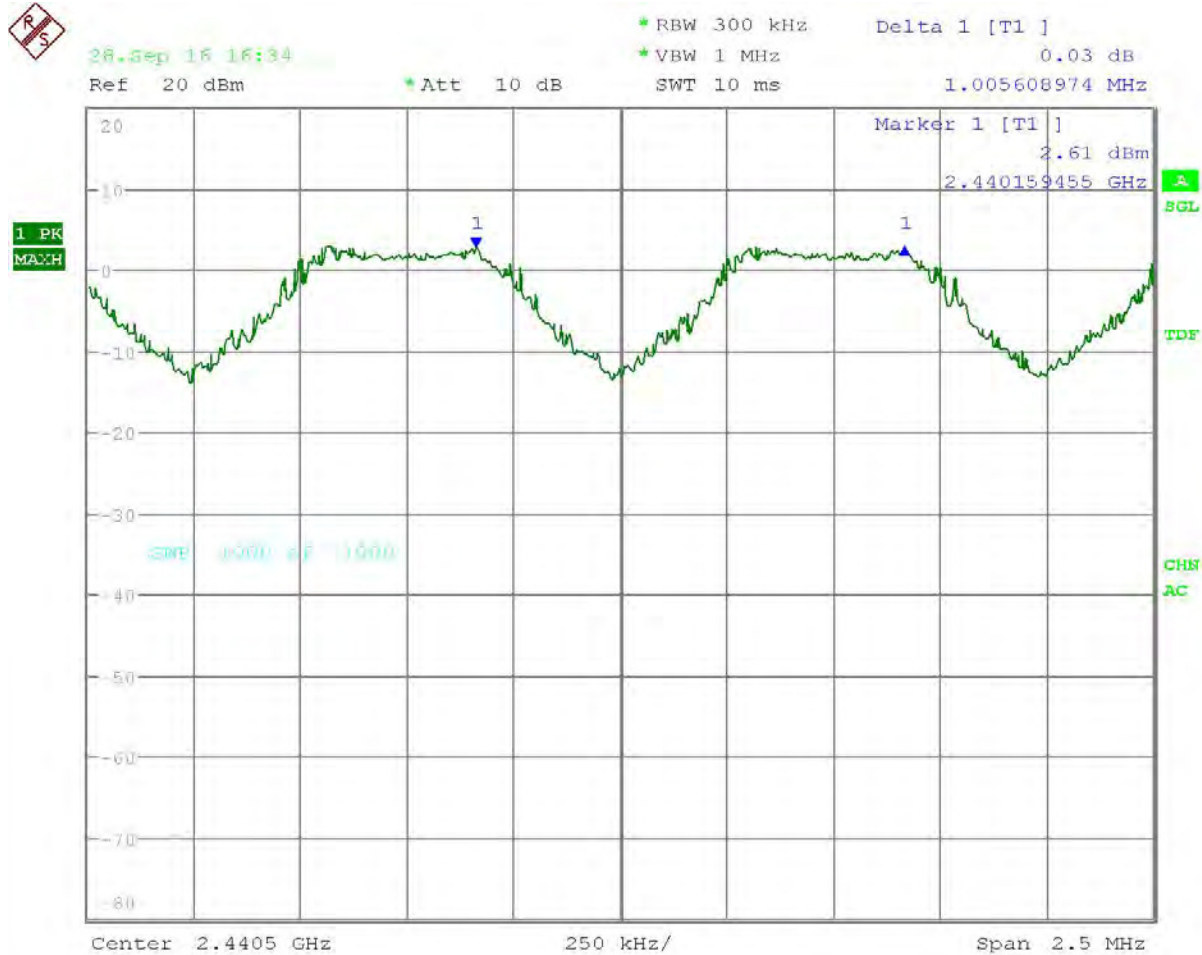
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
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FHSS REQUIREMENTS

Test Data: Mode 1 Channel Separation Plot



Date: 28.SEP.2016 16:34:45

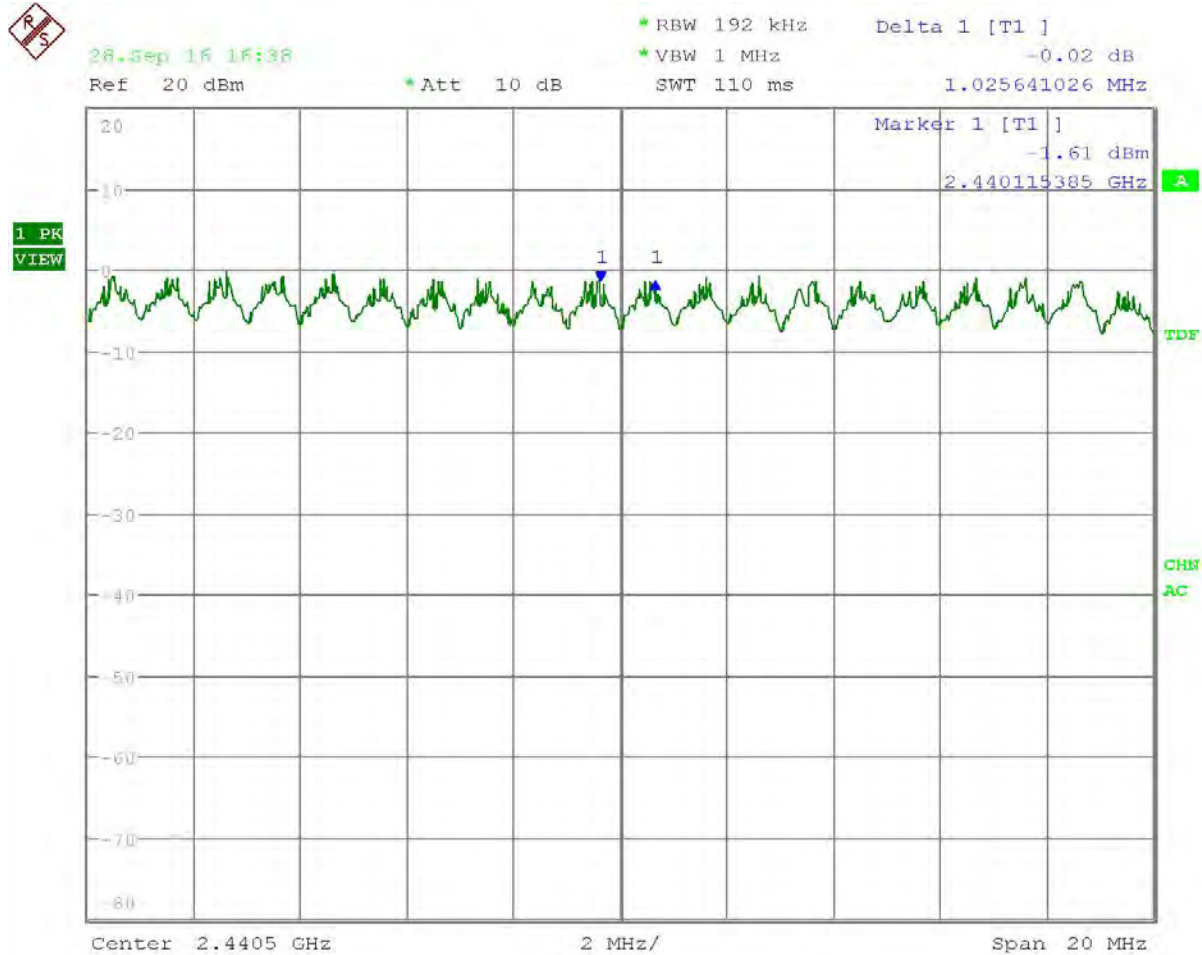
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
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FHSS REQUIREMENTS

Test Data: Mode 2 Channel Separation Plot



Date: 28.SEP.2016 16:38:06

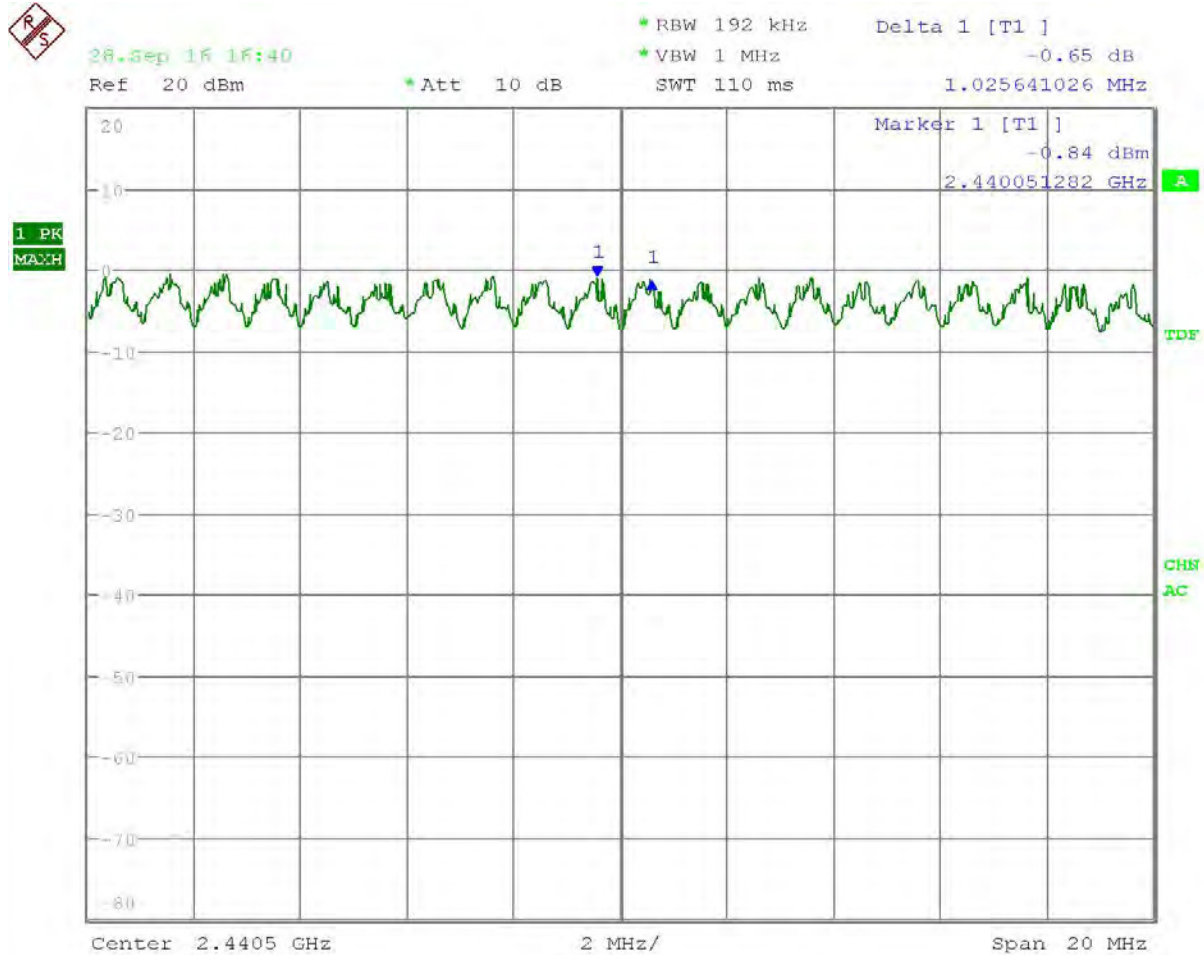
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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FHSS REQUIREMENTS

Test Data: Mode 3 Channel Separation Plot



Date: 28.SEP.2016 16:40:32

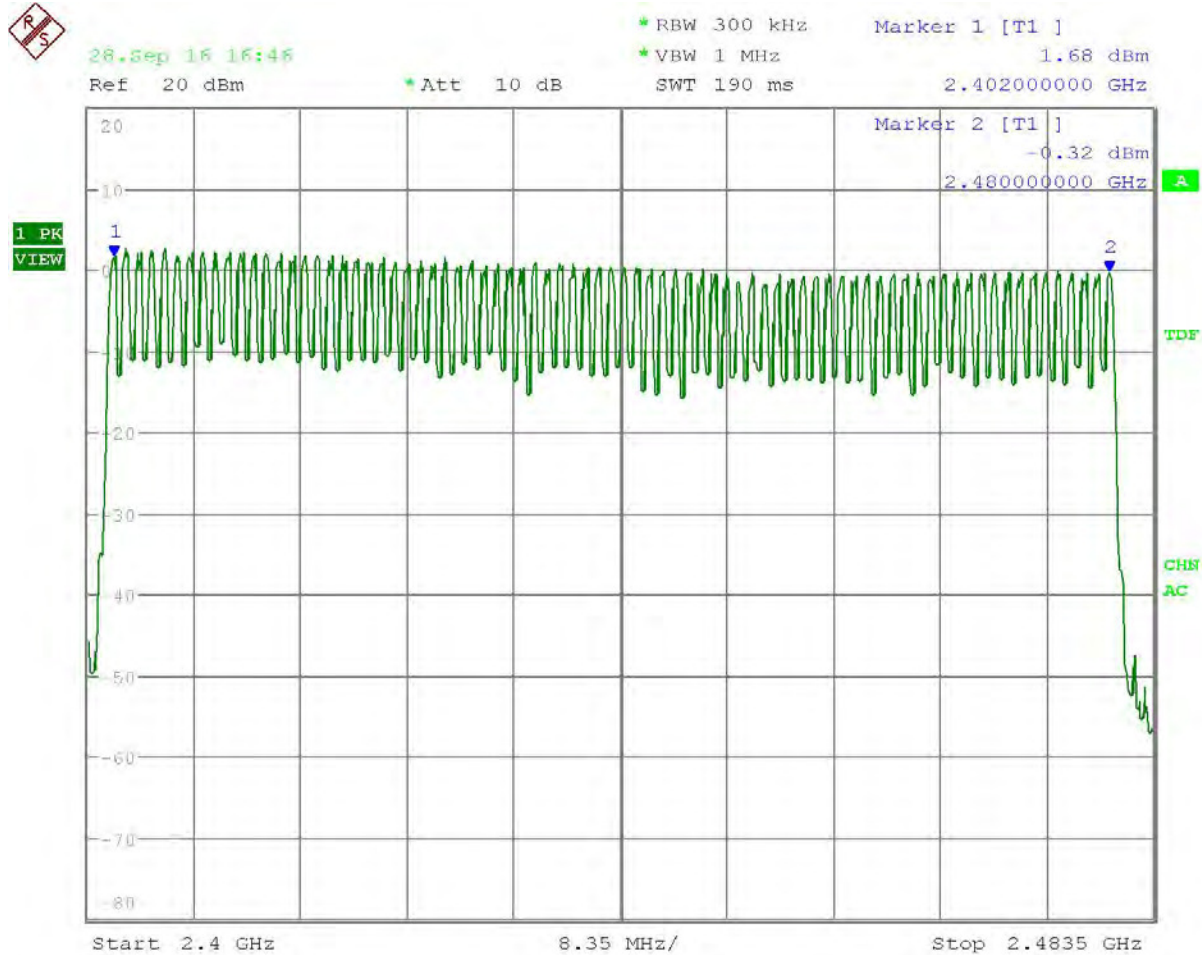
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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FHSS REQUIREMENTS

Test Data: All Modes Number of Hopping Channels Plot



Date: 28.SEP.2016 16:46:10

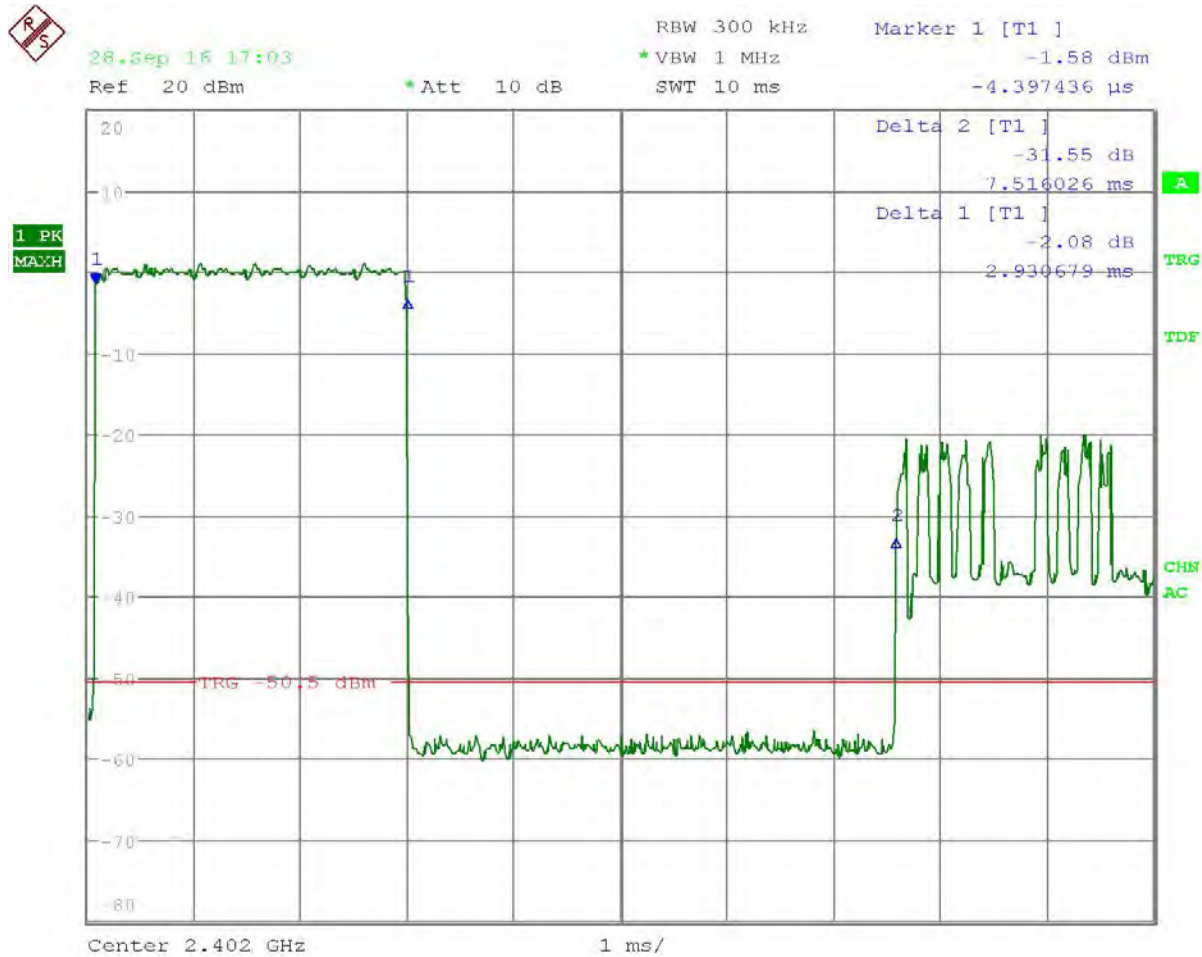
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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FHSS REQUIREMENTS

Test Data: All Modes Channel Occupancy Time Plot 1



Date: 28.SEP.2016 17:03:37

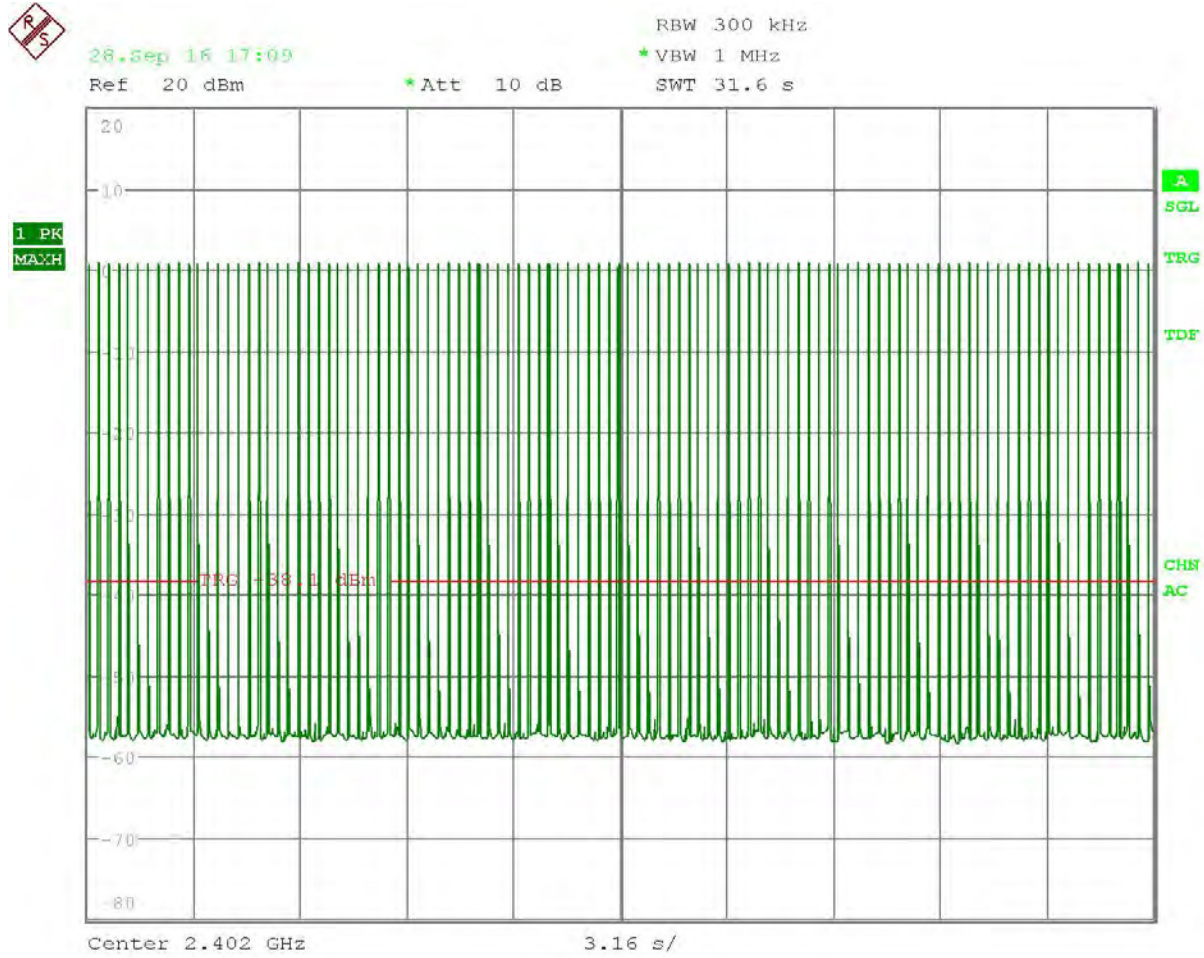
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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FHSS REQUIREMENTS

Test Data: All Modes Channel Occupancy Time Plot 2



Date: 28.SEP.2016 17:09:56

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Rules Part No.: FCC 15.247(b) (1) (4), IC RSS 247 § 5.4.2

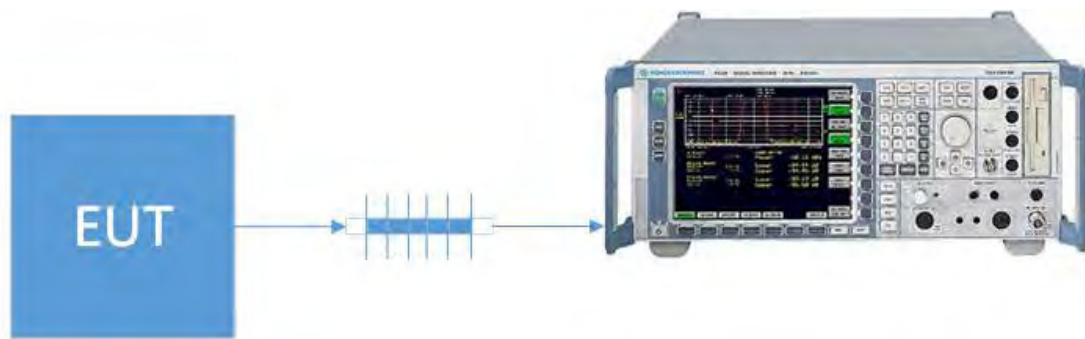
Requirements:

FHSS Using Hopset \geq 75 Channels

For FHSSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hop set uses 75 or more hopping channels.

Test Method: ANSI C63.10 § 7.8.5 Output Power test procedure for FHSS

Setup:



PEAK POWER OUTPUT

Test Data: Mode 1 Peak Power Output Measurement Table

Peak Conducted Power Output Measurement				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	P _{Conducted} (W)	Limit (W)	Margin (W)
2402	1.18	0.00131	1.00	0.99869
2441	-0.20	0.00095	1.00	0.99905
2480	-0.91	0.00081	1.00	0.99919
Peak EIRP Power Output Calculation				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	EIRP (W)	Limit (W)	Margin (W)
2402	1.18	0.00215	4.00	3.99785
2441	-0.2	0.00157	4.00	3.99843
2480	-0.91	0.00133	4.00	3.99867

Test Data: Mode 2 Peak Power Output Measurement Table

Peak Conducted Power Output Measurement				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	P _{Conducted} (W)	Limit (W)	Margin (W)
2402	-0.25	0.00094	1.00	0.99906
2441	-1.66	0.00068	1.00	0.99932
2480	-2.28	0.00059	1.00	0.99941
Peak EIRP Power Output Calculation				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	EIRP (W)	Limit (W)	Margin (W)
2402	-0.25	0.00155	4.00	3.99845
2441	-1.66	0.00112	4.00	3.99888
2480	-2.28	0.00097	4.00	3.99903

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 3 Peak Power Output Measurement Table

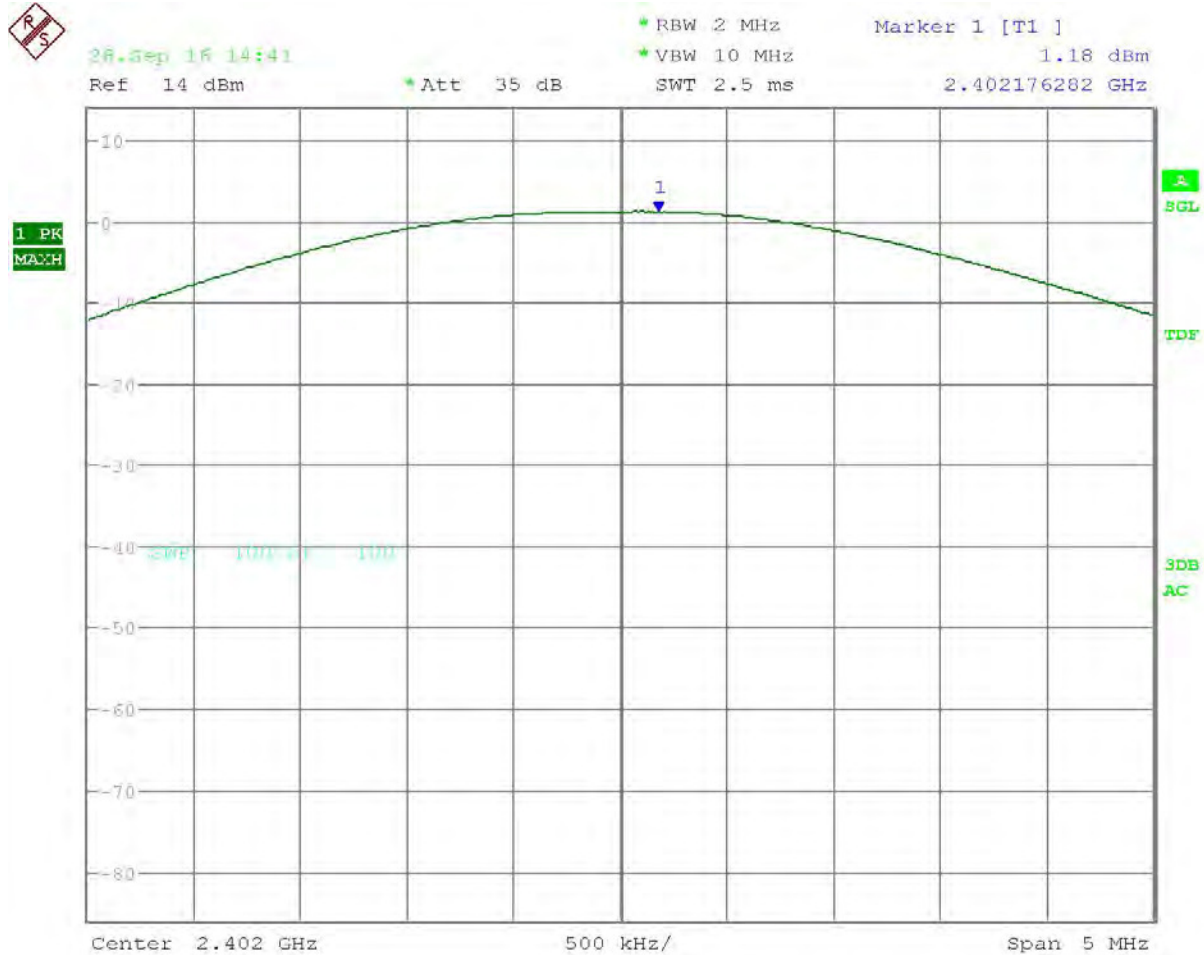
Peak Conducted Power Output Measurement				
Tuned Frequency (MHz)	PConducted (dBm)	PConducted (W)	Limit (W)	Margin (W)
2402	0.03	0.00101	1.00	0.99899
2441	-1.36	0.00073	1.00	0.99927
2480	-1.94	0.00064	1.00	0.99936

Peak EIRP Power Output Calculation				
Tuned Frequency (MHz)	PConducted (dBm)	EIRP (W)	Limit (W)	Margin (W)
2402	0.03	0.00165	4.00	3.99835
2441	-1.36	0.00120	4.00	3.99880
2480	-1.94	0.00105	4.00	3.99895

RESULTS: Meets Requirements

PEAK POWER OUTPUT

Test Data: Mode 1 Low End of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:41:33

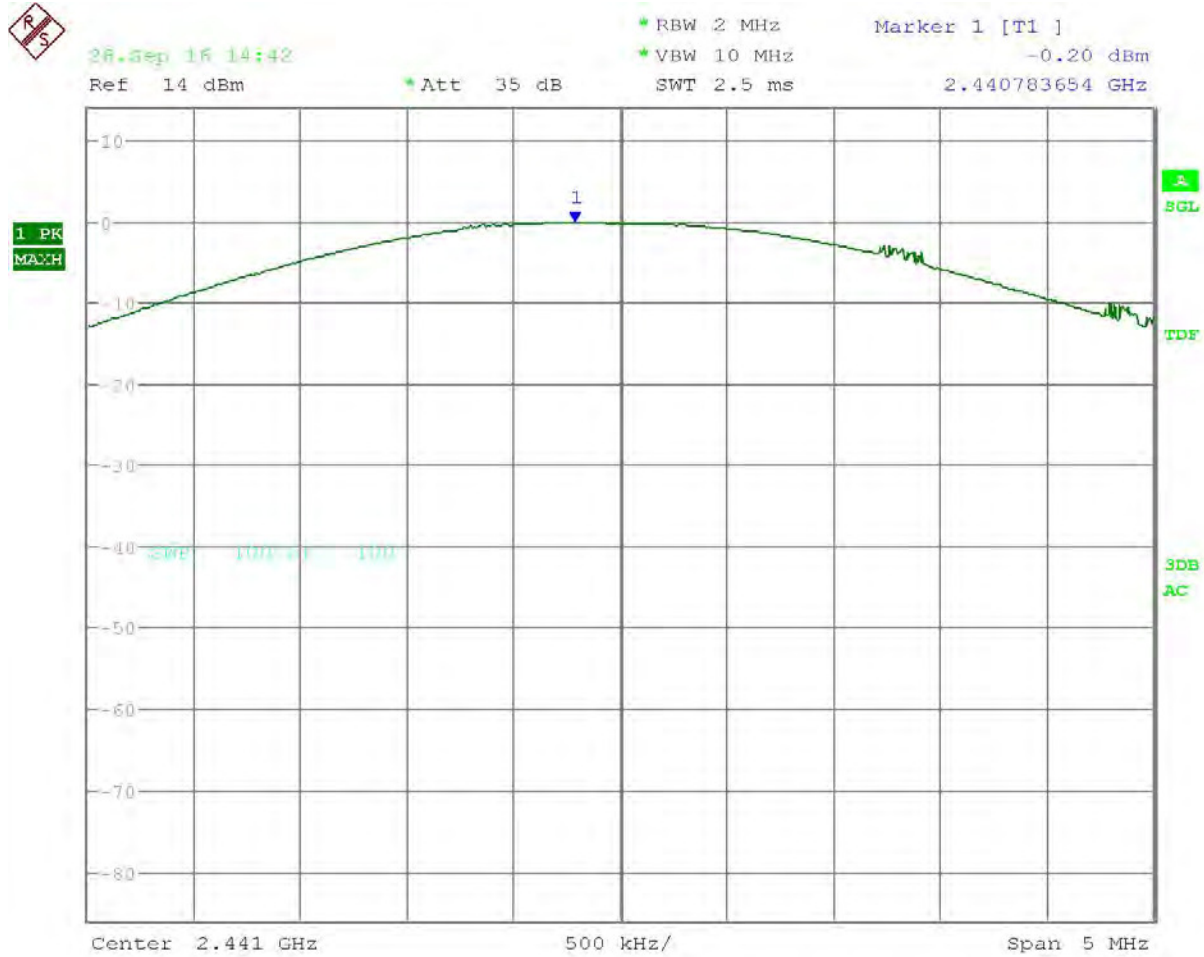
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 1 Middle of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:42:16

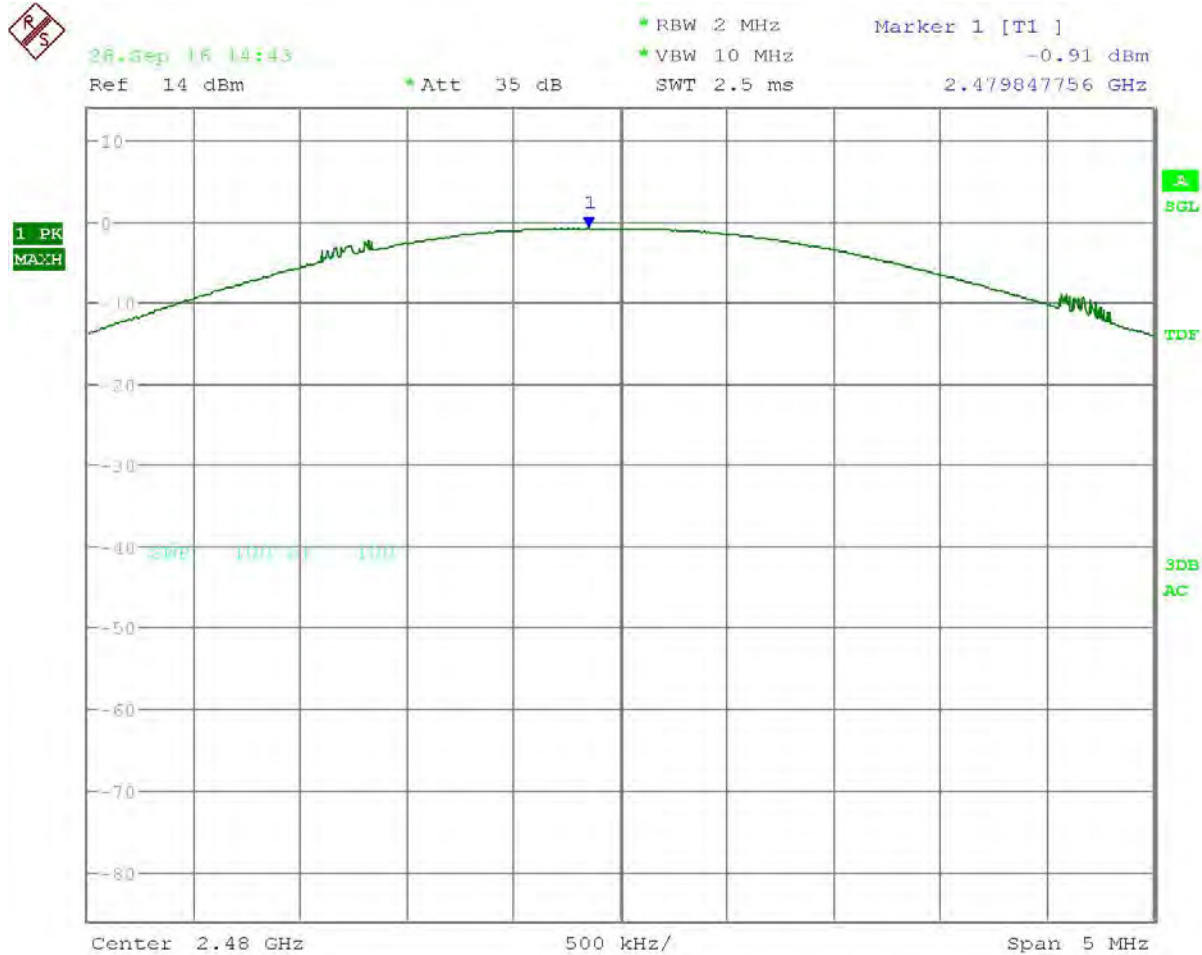
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 1 High End of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:43:00

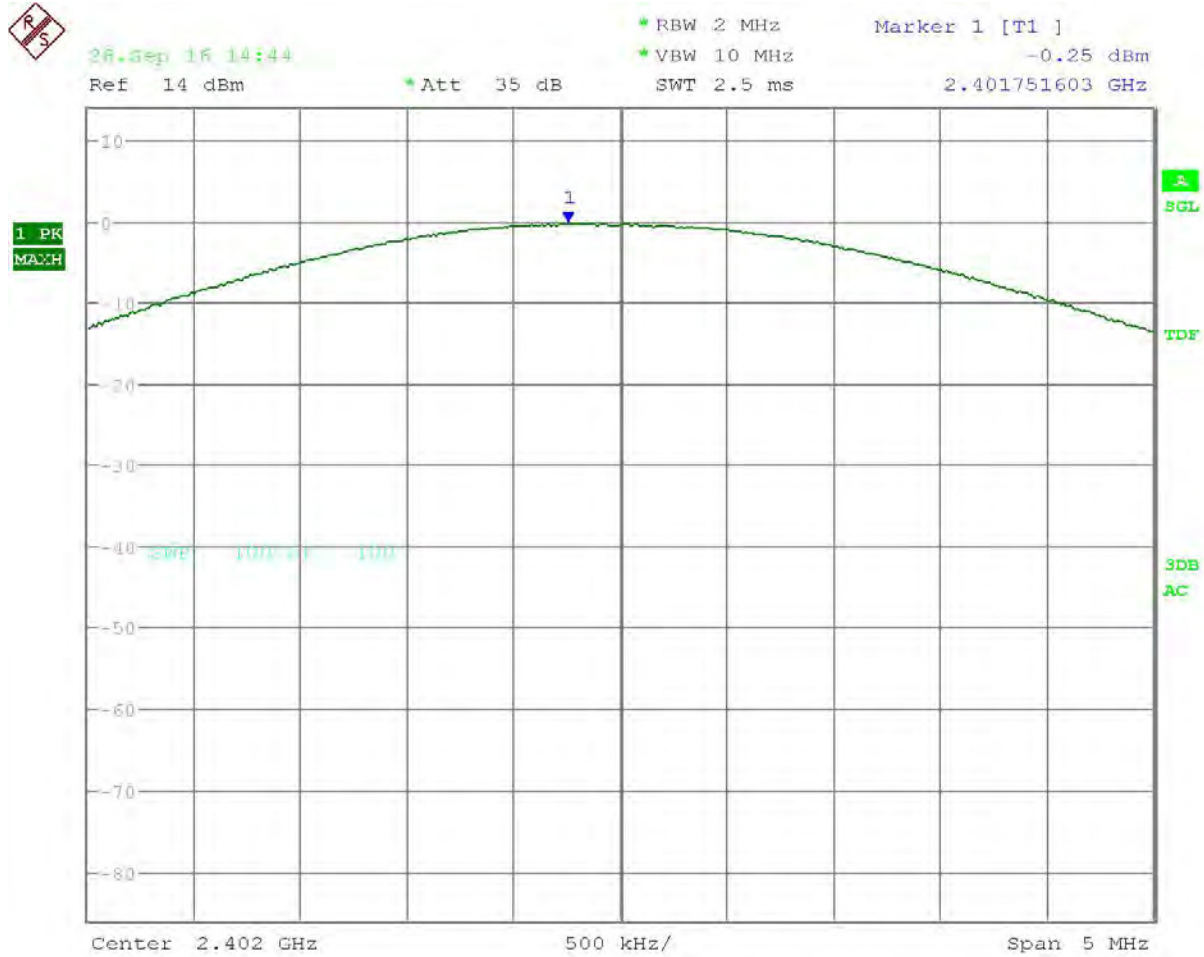
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 2 Low End of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:44:26

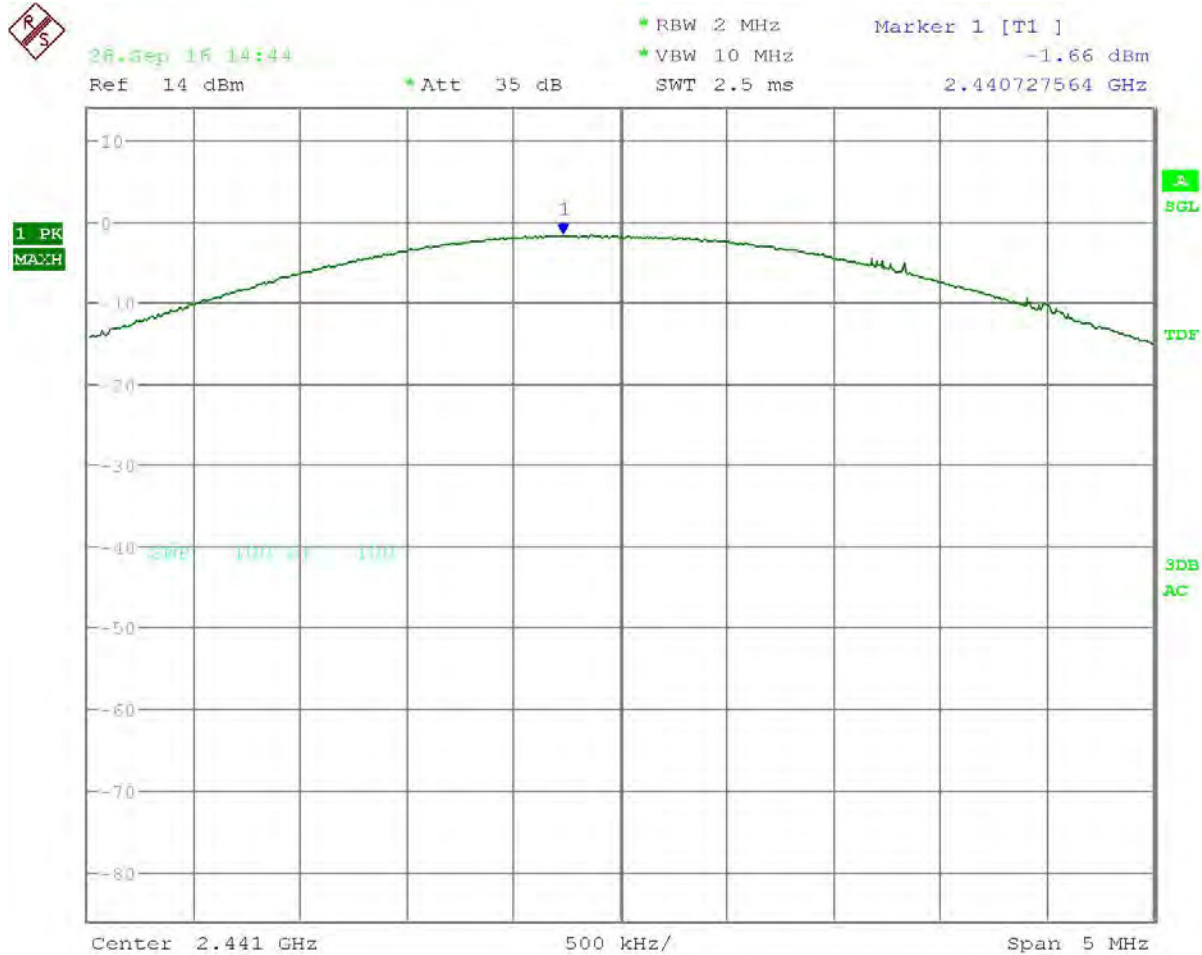
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 2 Middle of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:44:48

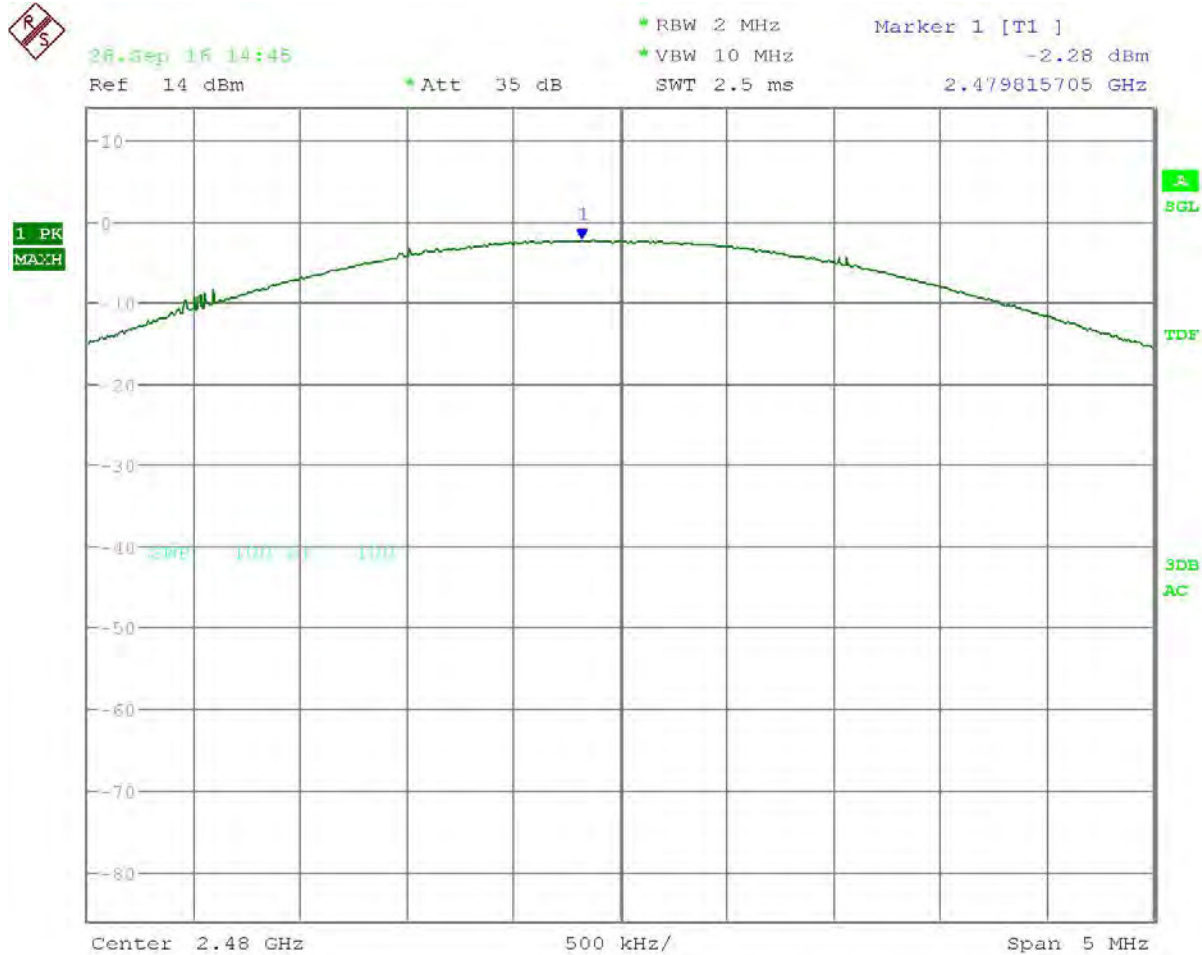
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 2 High End of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:45:12

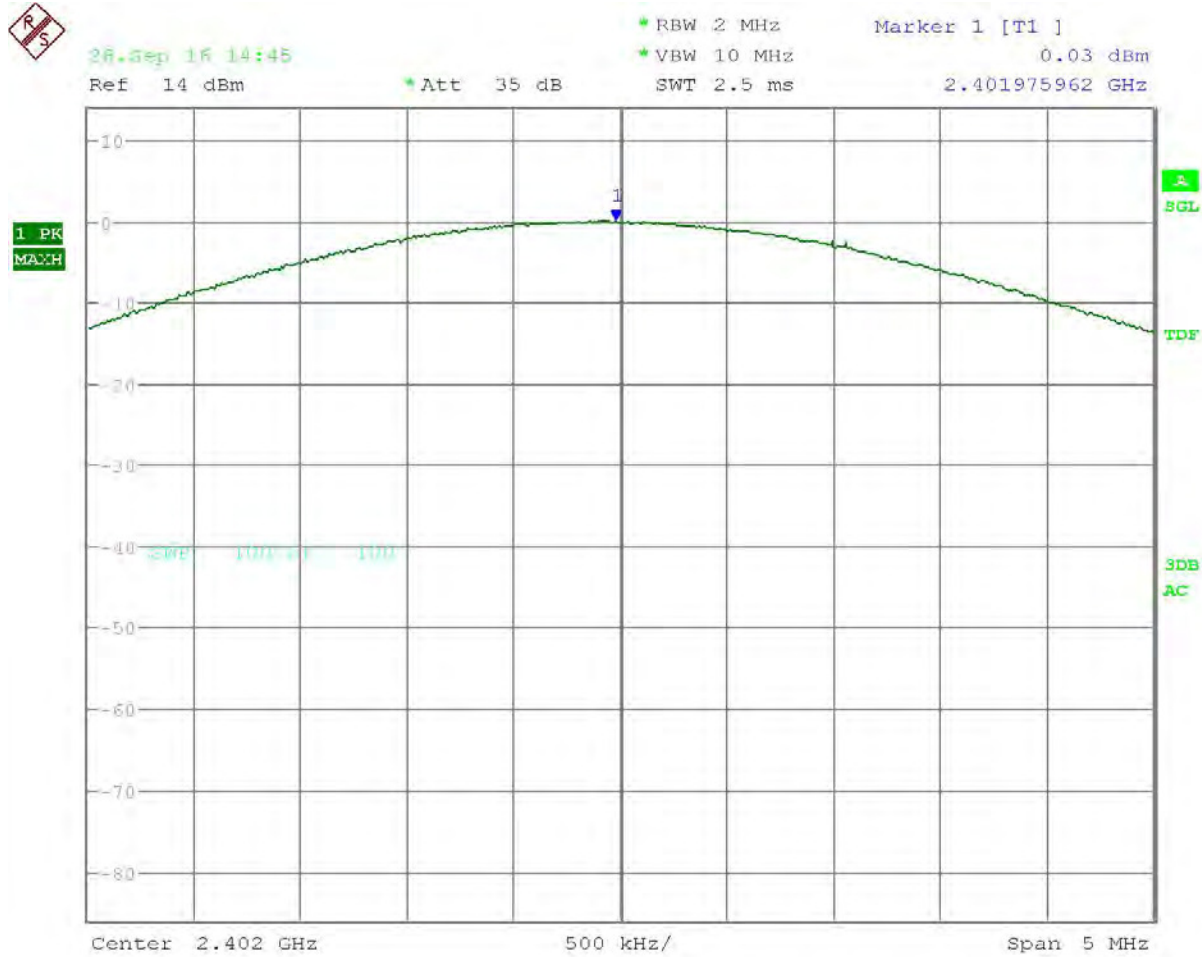
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 3 Low End of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:45:57

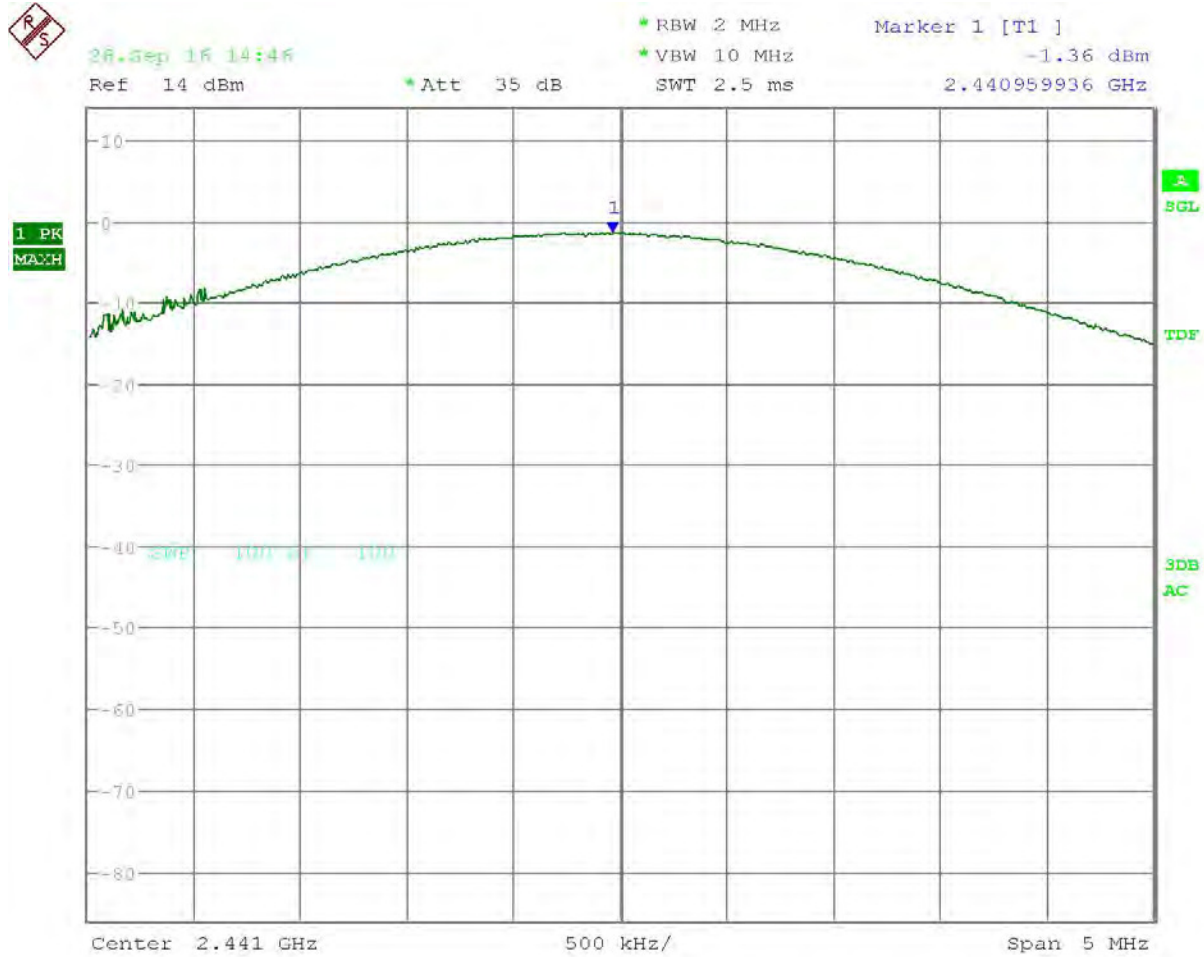
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 3 Middle of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:46:29

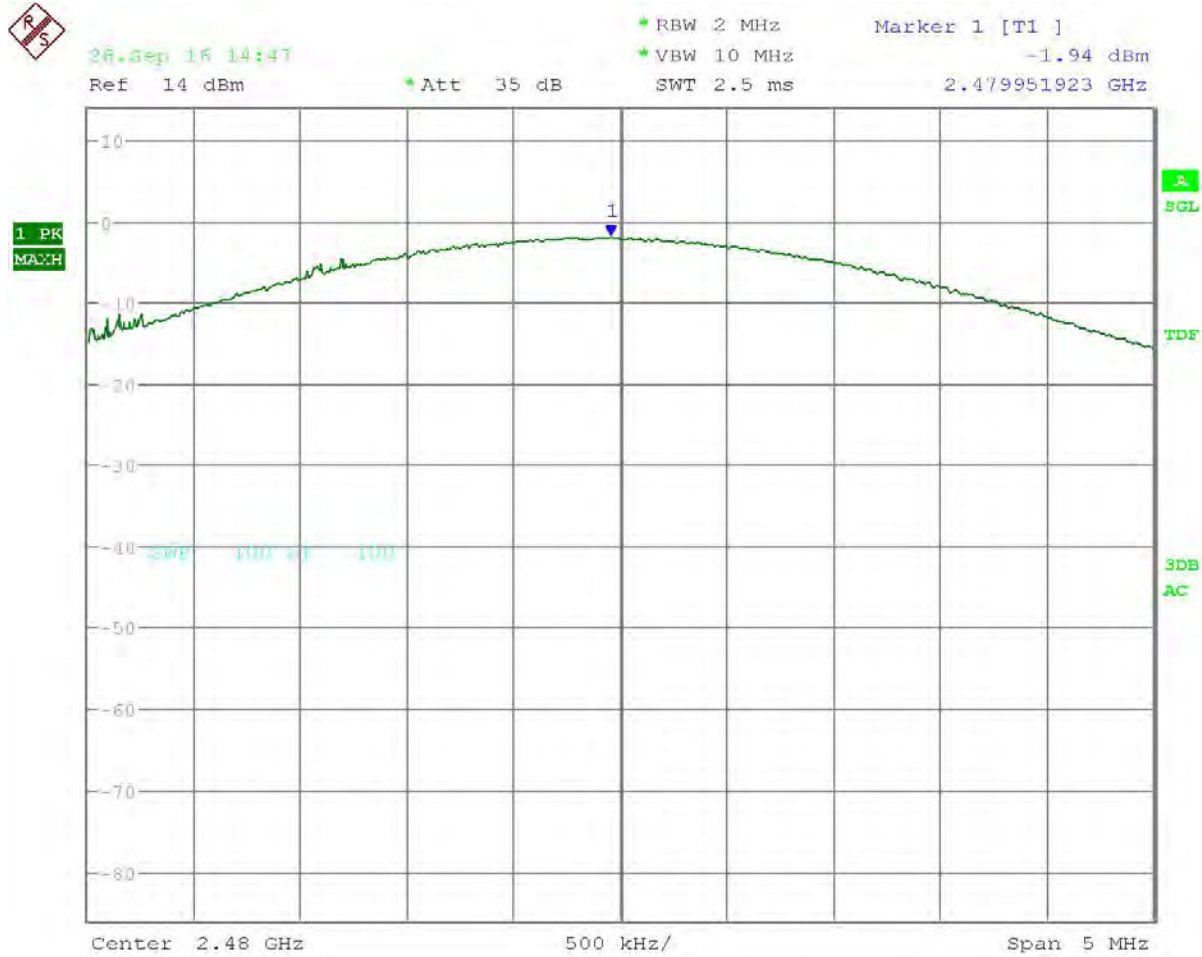
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Mode 3 High End of Band Peak Conducted Power Plot



Date: 28.SEP.2016 14:47:10

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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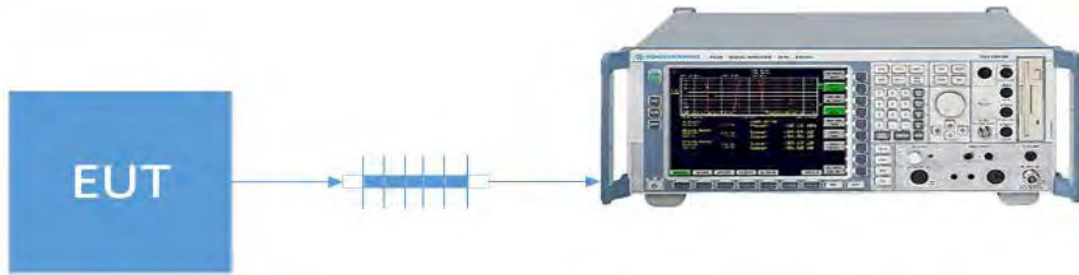
BANDEDGE

Rule Part No.: FCC 15.247(d), IC RSS 247 § 5.5

Requirements: Emissions must be at least 20dB down from the highest emission level Within the authorized band as measured with a 100 kHz RBW.

Test Method: ANSI C63.10 § 6.10.4 Authorized band-edge relative method (lower bandedge)
ANSI C63.10 § 6.10.6 Marker Delta Method (upper restricted bandedge)

Setup:



Test Data: Mode 1 Lower Bandedge Measurement Table

Bandedge	Tuned Frequency (MHz)	Measured Level (dBc)	Limit (dBc)	Margin (dB)
Lower	2402	43.3	20	23.3
	Hopping	46.0	20	26.0

Test Data: Mode 2 Lower Bandedge Measurement Table

Bandedge	Tuned Frequency (MHz)	Measured Level (dBc)	Limit (dBc)	Margin (dB)
Lower	2402	38.5	20	18.5
	Hopping	39.8	20	19.8

Test Data: Mode 3 Lower Bandedge Measurement Table

Bandedge	Tuned Frequency (MHz)	Measured Level (dBc)	Limit (dBc)	Margin (dB)
Lower	2402	39.42	20	19.42
	Hopping	36.29	20	16.29

Results Meet Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 1 Upper Bandedge Measurement Table

Tuned Frequency (MHz)	Detector	Field Strength of Carrier (dBuV/m)	Emission Level Below Carrier (dBc)	Field Strength of Emission (dBuV/m)	Emission Limit (dBuV/m)	Margin (dB)
2480	Peak	88.6	62.0	26.6	74	47.4
	Average	76.6	62.0	14.6	54	39.4
Hopping	Peak	88.6	62.1	26.5	74	47.5
	Average	77.6	62.1	15.5	54	38.5

Test Data: Mode 2 Upper Bandedge Measurement Table

Tuned Frequency (MHz)	Detector	Field Strength of Carrier (dBuV/m)	Emission Level Below Carrier (dBc)	Field Strength of Emission (dBuV/m)	Emission Limit (dBuV/m)	Margin (dB)
2480	Peak	87.0	61.5	25.5	74	48.5
	Average	74.9	61.5	13.4	54	40.6
Hopping	Peak	87.0	62.0	25.0	74	49.0
	Average	74.9	62.0		54	41.1

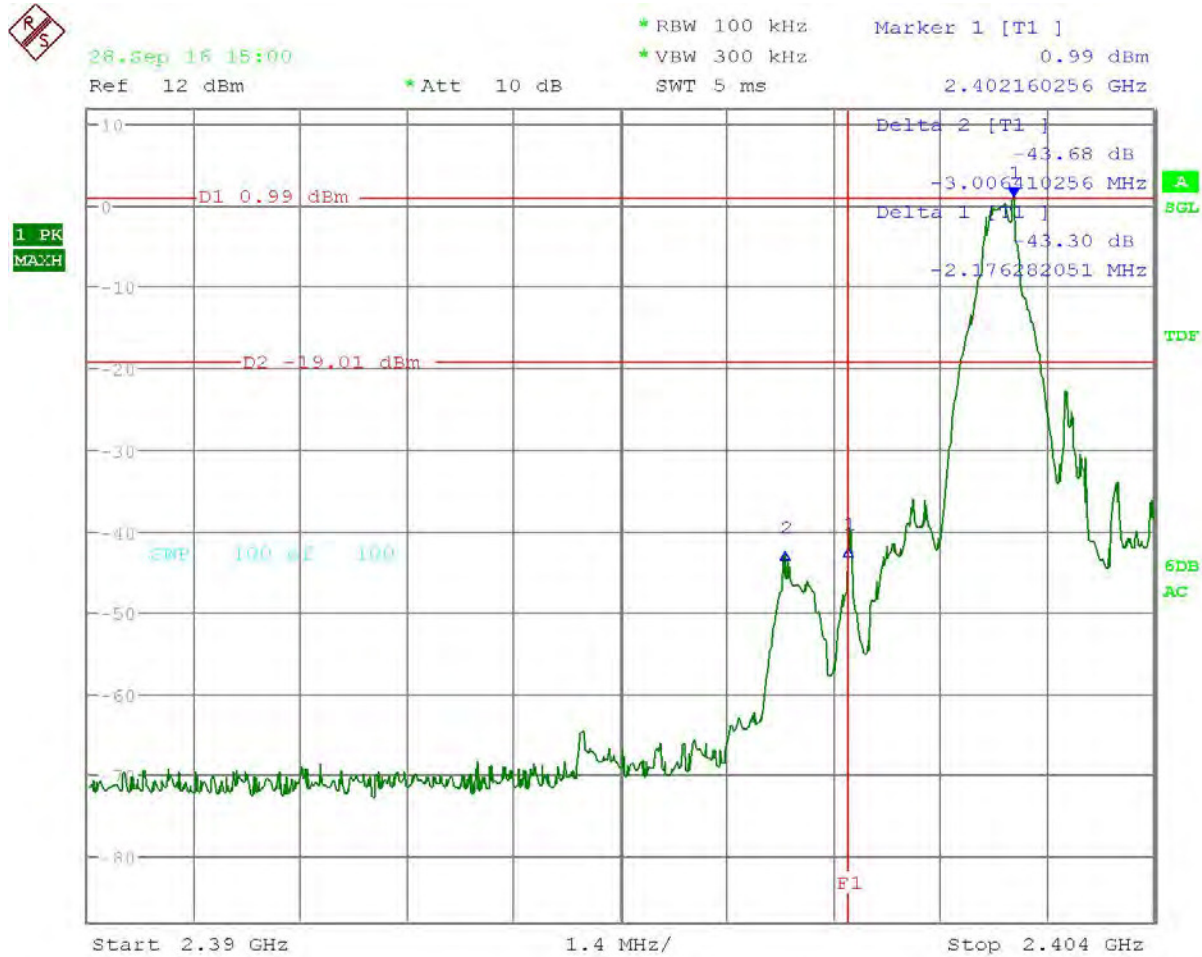
Test Data: Mode 3 Upper Bandedge Measurement Table

Tuned Frequency (MHz)	Detector	Field Strength of Carrier (dBuV/m)	Emission Level Below Carrier (dBc)	Field Strength of Emission (dBuV/m)	Emission Limit (dBuV/m)	Margin (dB)
2480	Peak	85.2	63.1	22.1	74	51.9
	Average	75.6	63.1	12.5	54	41.5
Hopping	Peak	85.2	61.0	24.2	74	49.8
	Average	75.6	61.0	14.6	54	39.4

RESULTS: Meets Requirements

BANDEDGE

Test Data: Mode 1 Low End of Band Lower Band Edge Plot



Date: 28.SEP.2016 15:00:40

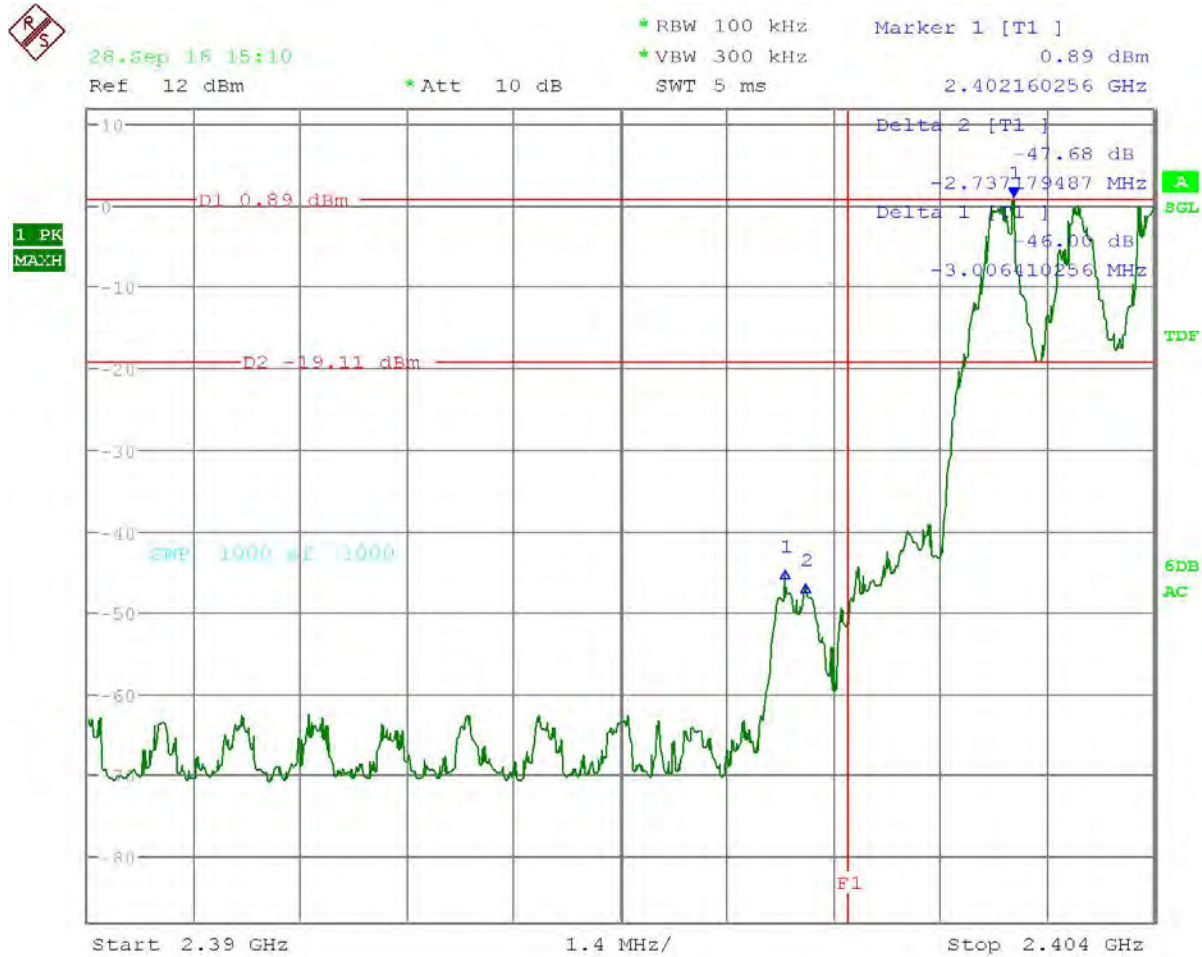
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 1 Hopping Lower Band Edge Plot



Date: 28.SEP.2016 15:10:03

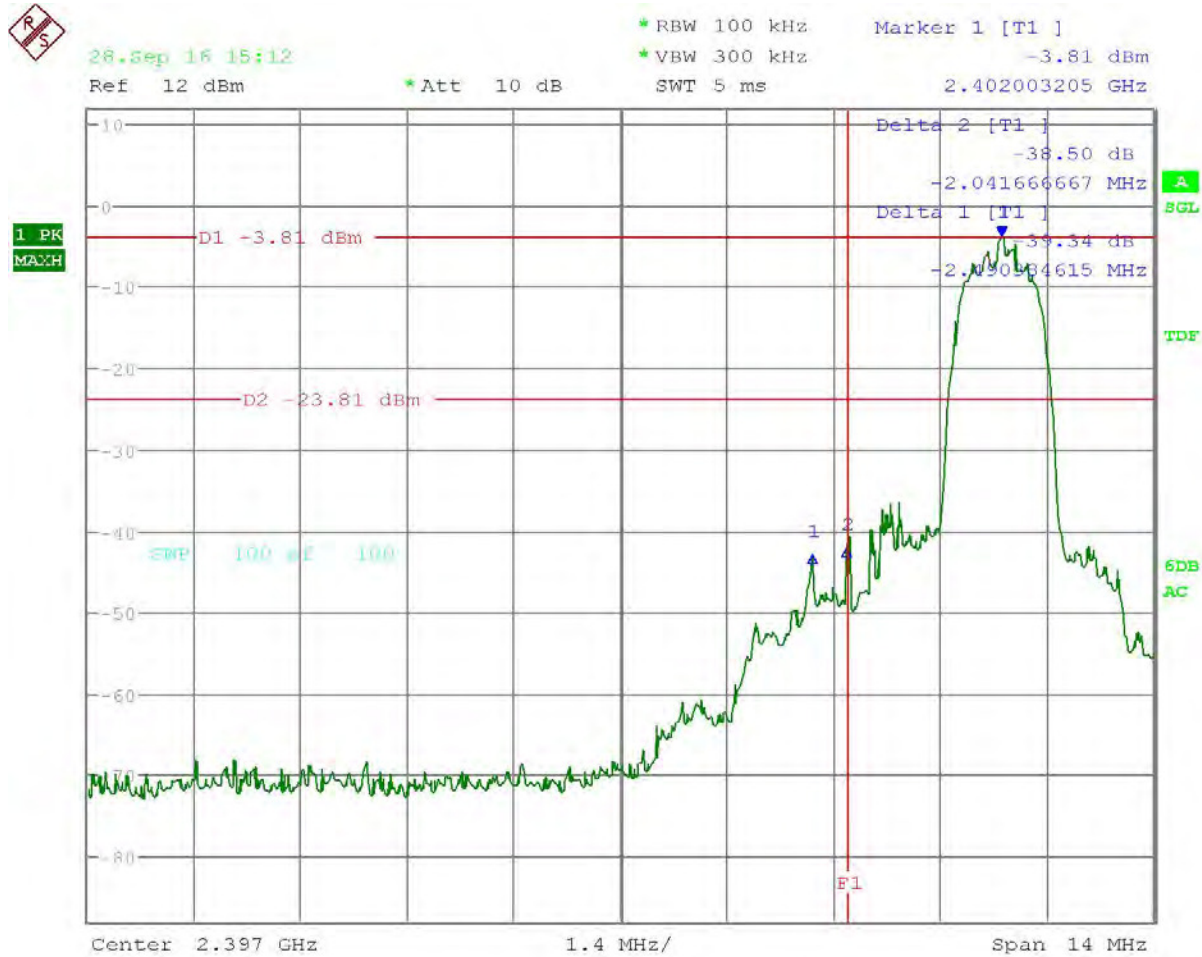
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 2 Low End of Band Lower Band Edge Plot



Date: 28.SEP.2016 15:12:42

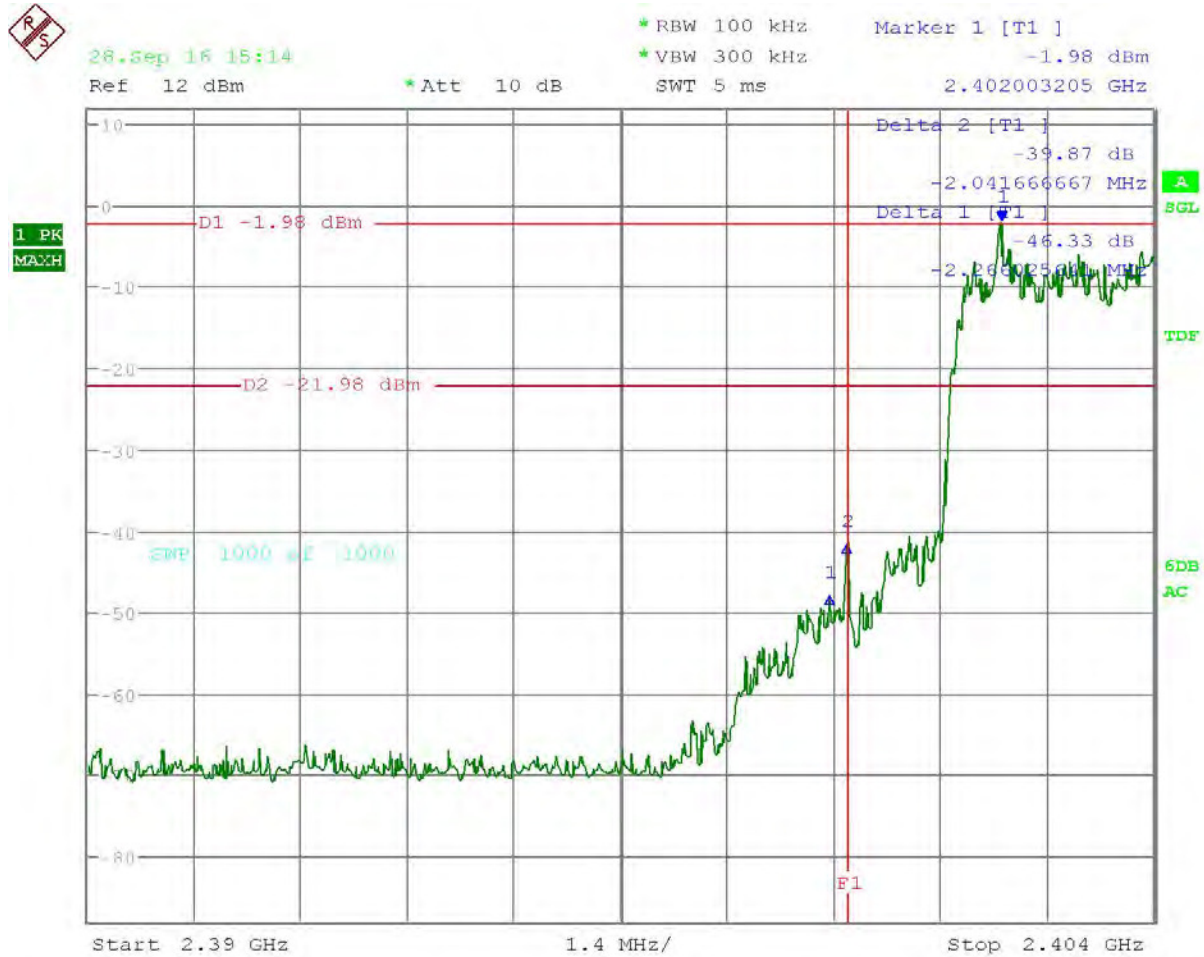
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 2 Hopping Lower Band Edge Plot



Date: 28.SEP.2016 15:14:08

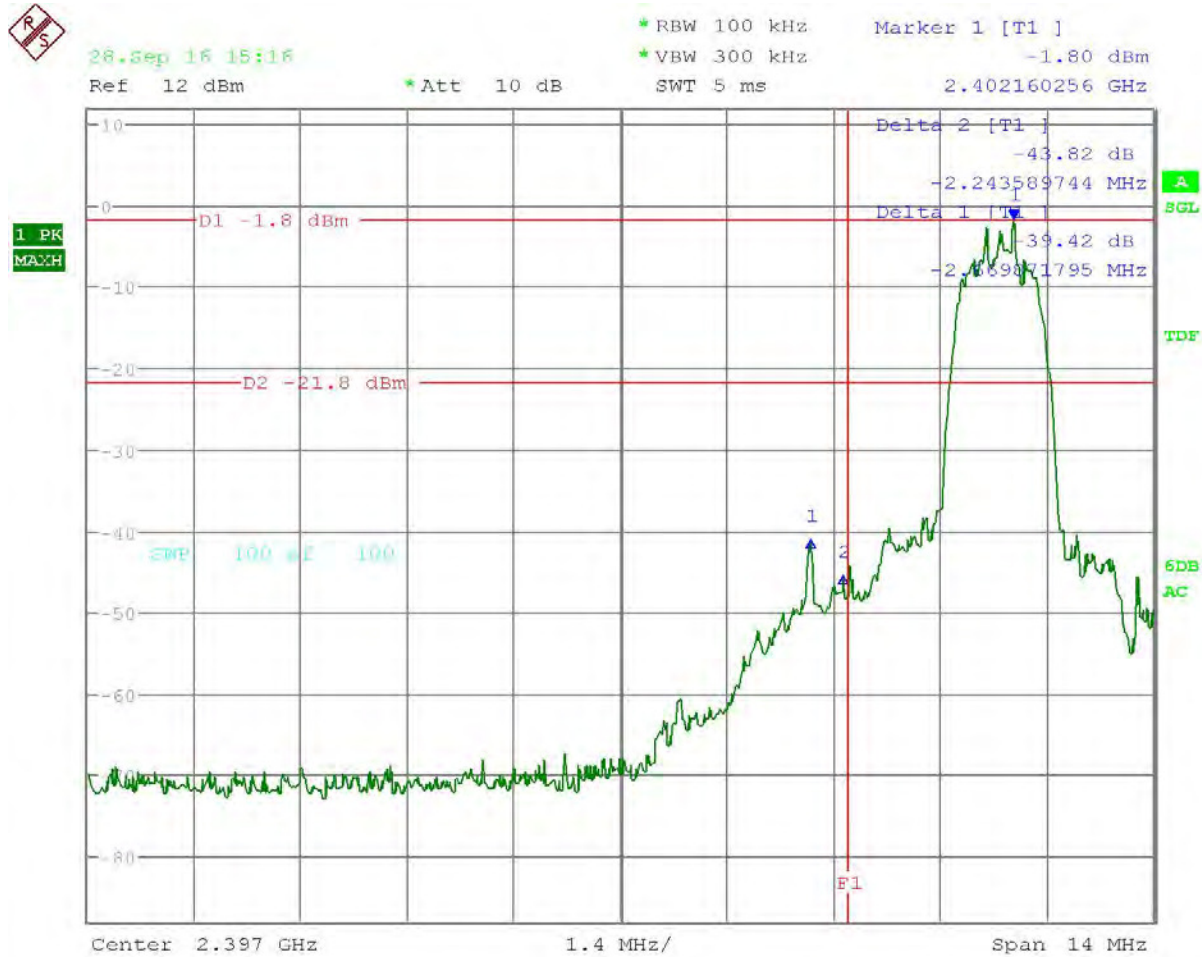
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: **Mode 3 Low End of Band Lower Band Edge Plot**



Date: 28.SEP.2016 15:16:26

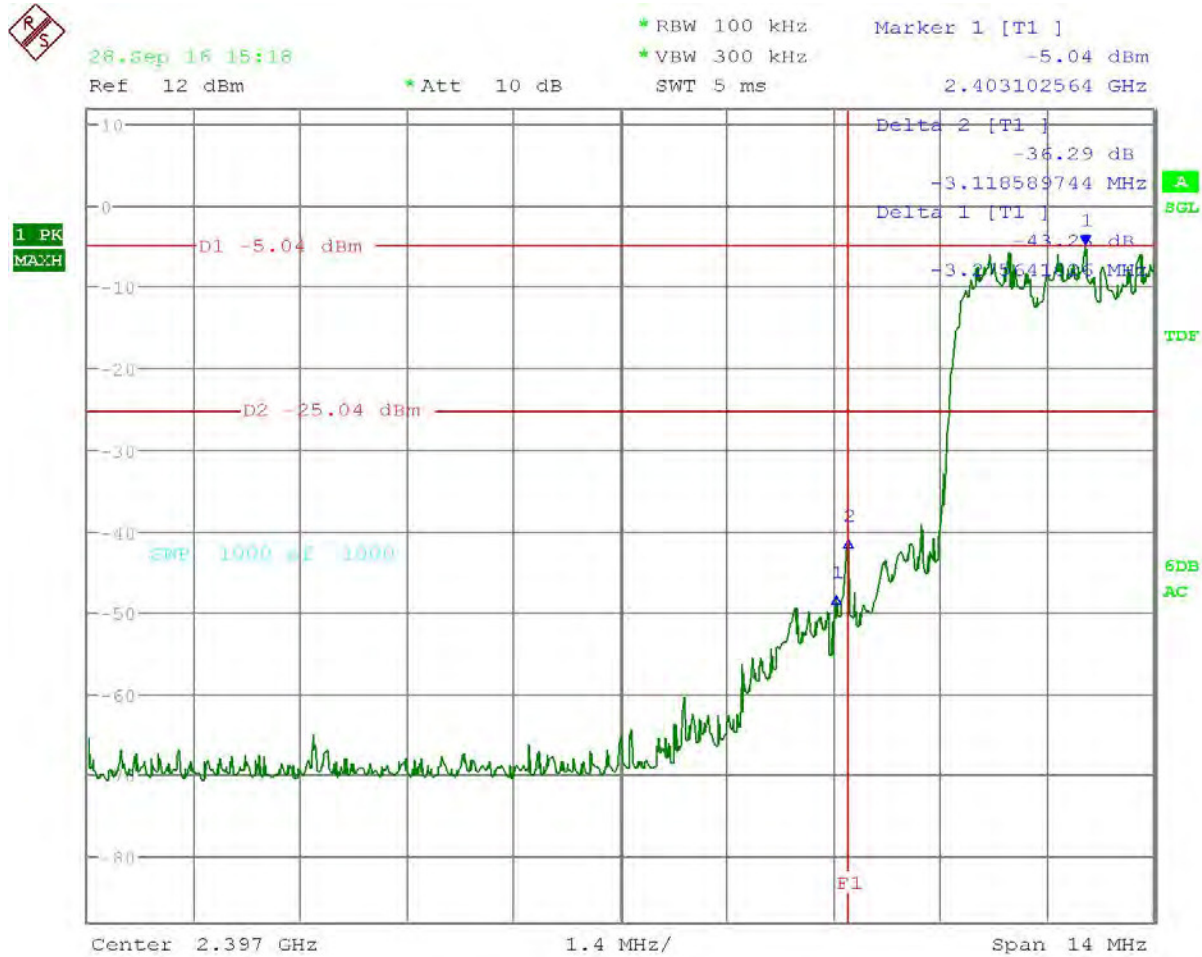
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 3 Hopping Lower Band Edge Plot



Date: 28.SEP.2016 15:18:08

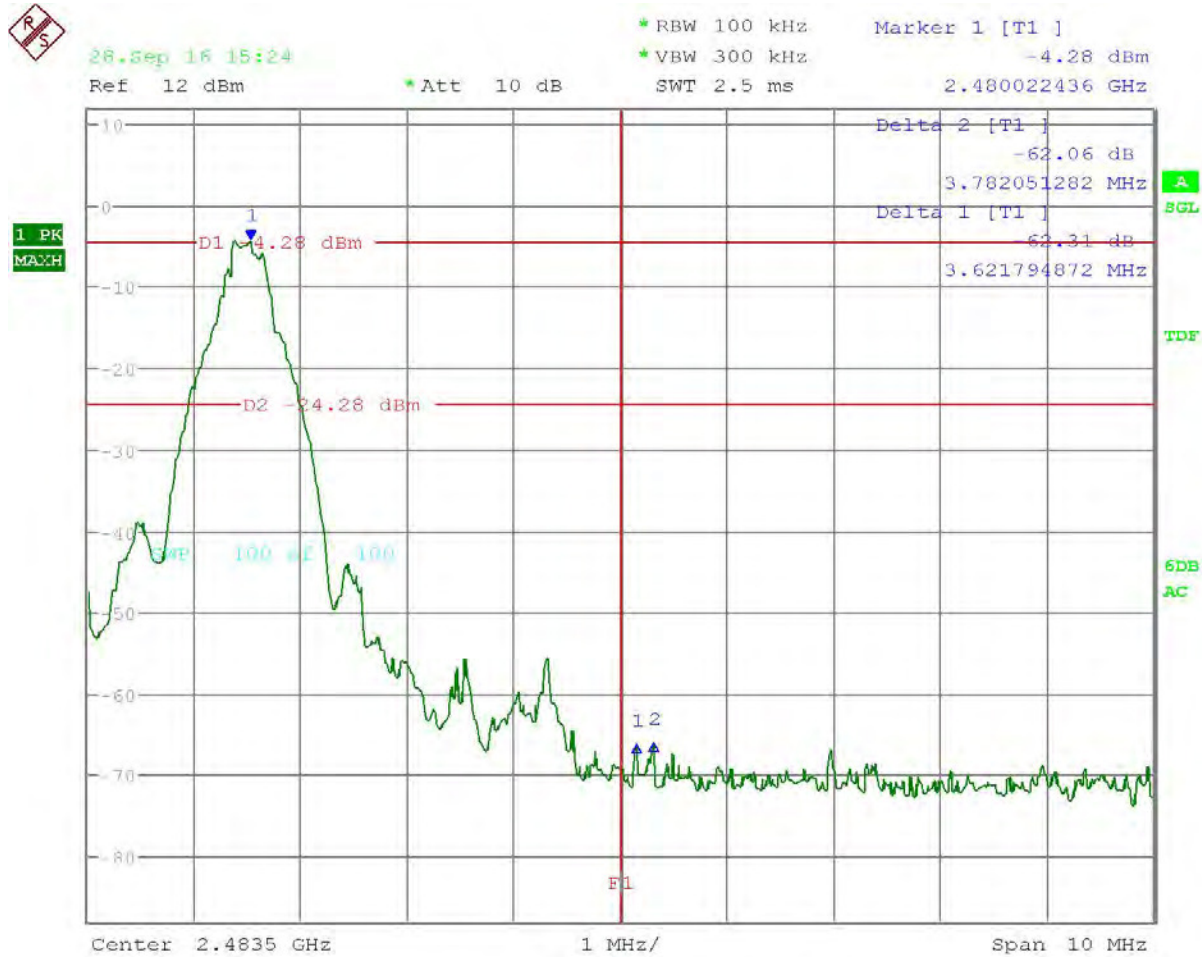
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 1 High End of Band Upper Band Edge Plot



Date: 28.SEP.2016 15:24:43

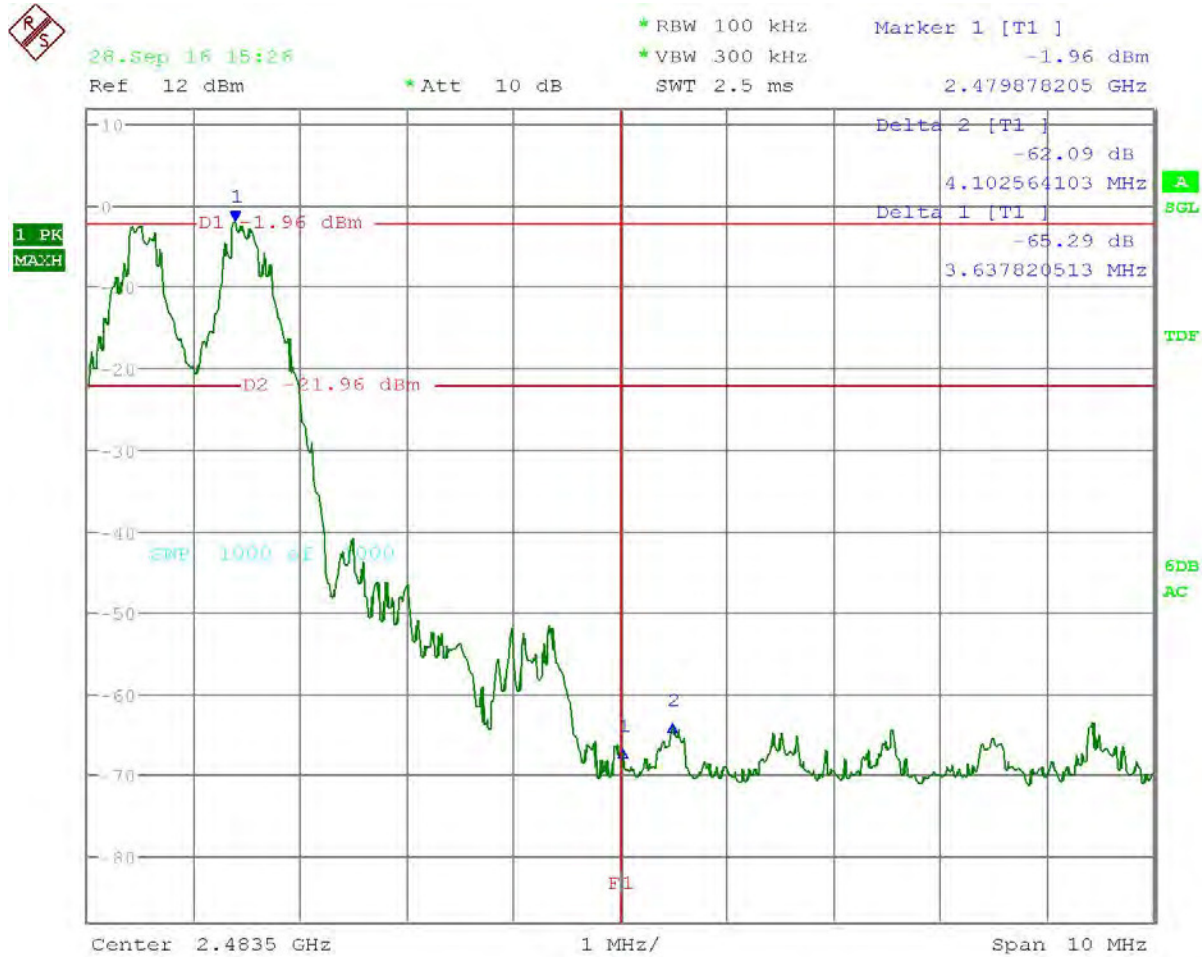
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 1 Hopping Upper Band Edge Plot



Date: 28.SEP.2016 15:26:15

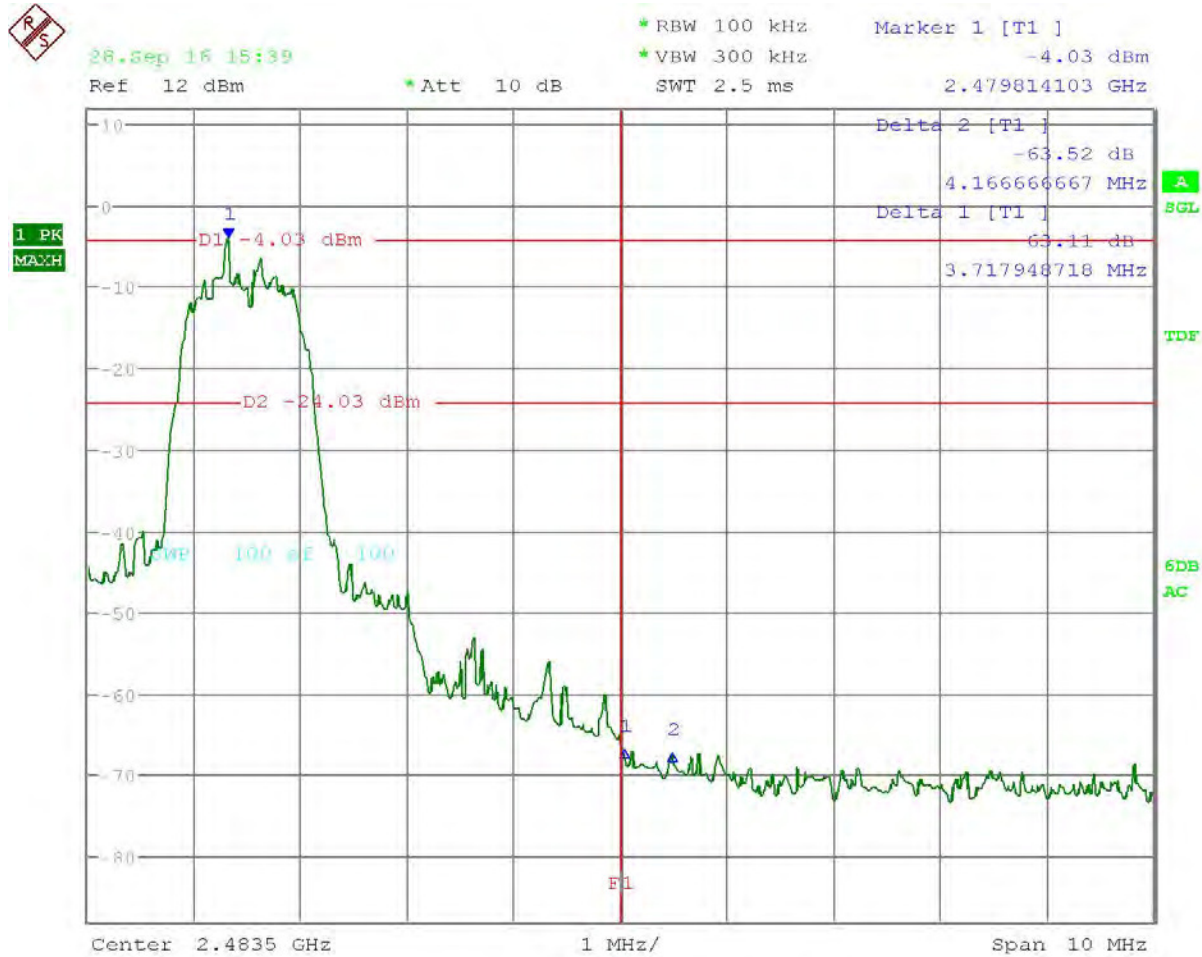
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 3 High End of Band Upper Band Edge Plot



Date: 28.SEP.2016 15:39:52

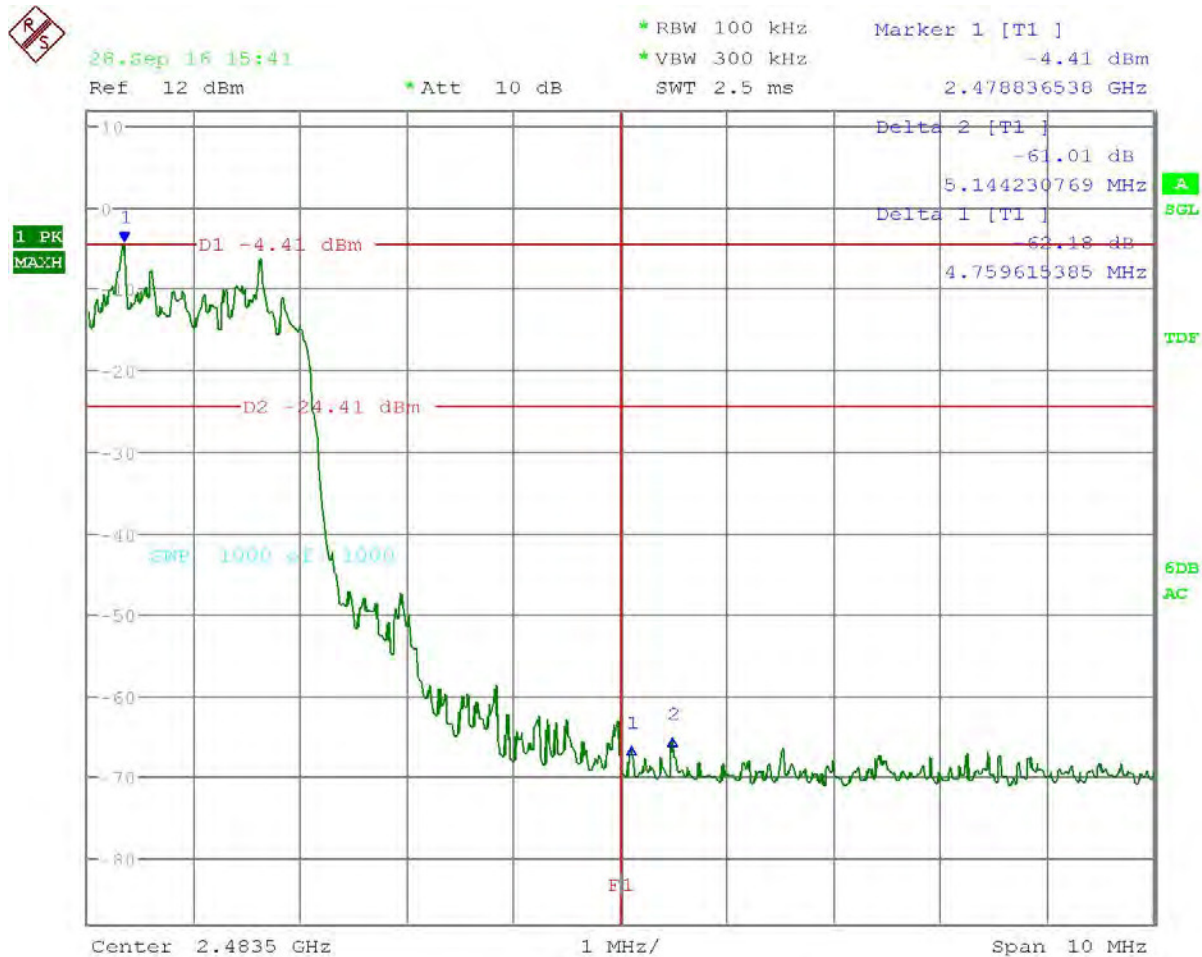
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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BANDEDGE

Test Data: Mode 3 Hopping Upper Band Edge Plot



Date: 28.SEP.2016 15:41:31

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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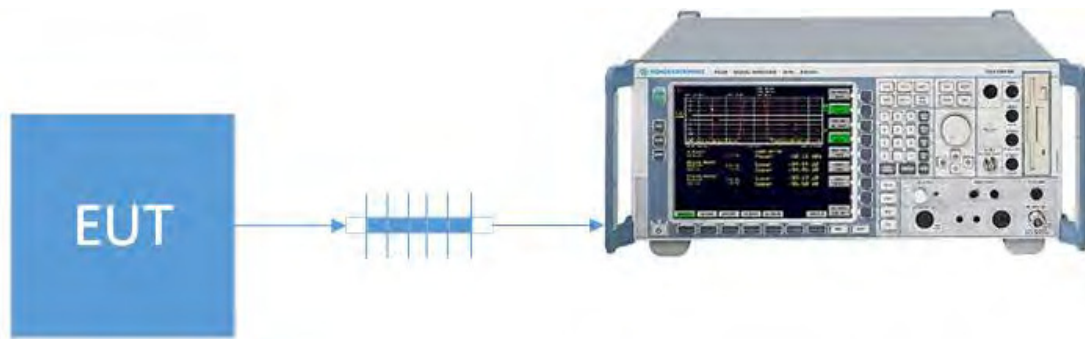
ANTENNA CONDUCTED SPURIOUS EMISSIONS

Rules Part No.: FCC part 15.247 (d) & 15.209, IC RSS 247 § 5.5 & RSS GEN § 8.9

Requirements: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below

Test Method: ANSI C63.10 § 11.11.1 General Information
ANSI C63.10 § 11.11.2 Reference level measurement
ANSI C63.10 § 11.11.3 Emission level measurement

Setup:



ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 1 Low End of Band 30 MHz – 25 GHz Plot



28.Sep 16 16:00

Ref 10 dBm

*Att 10 dB

*RBW 100 kHz

*VBW 300 kHz

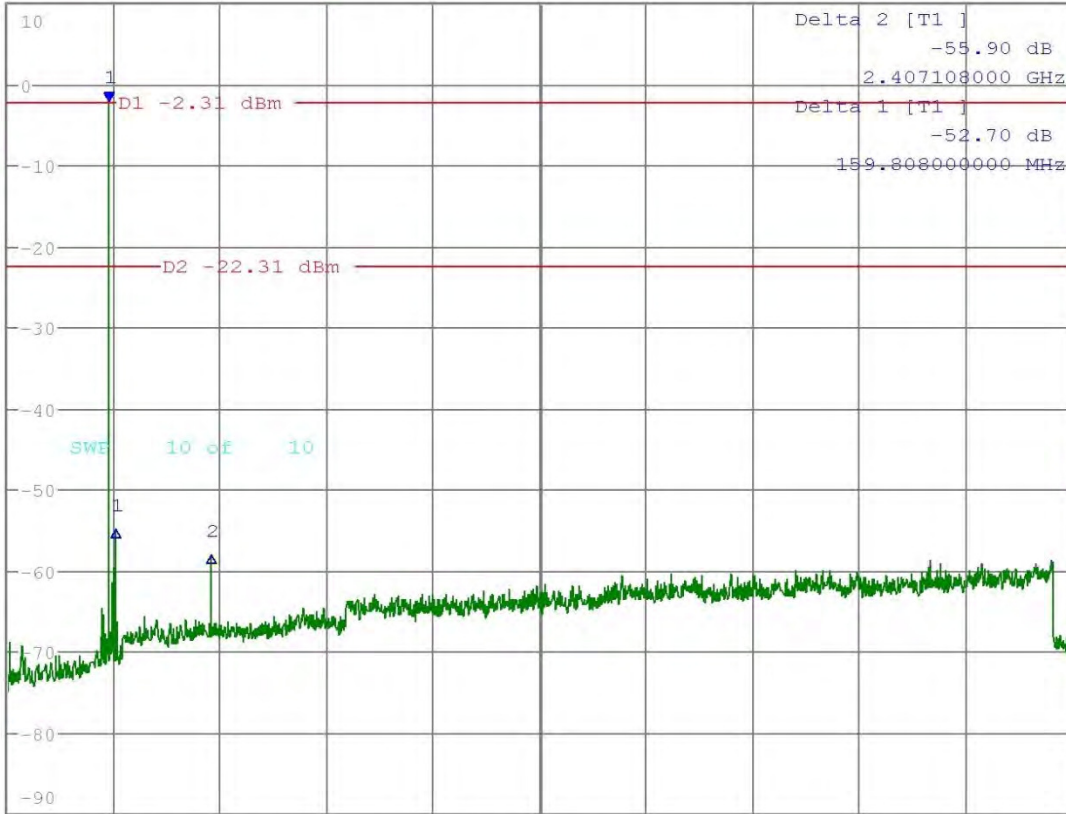
SWT 6 s

Marker 1 [T1]

-2.31 dBm

2.397156000 GHz

1 PK
MAXH



Center 12.515 GHz

2.497 GHz/

Span 24.97 GHz

Date: 28.SEP.2016 16:00:13

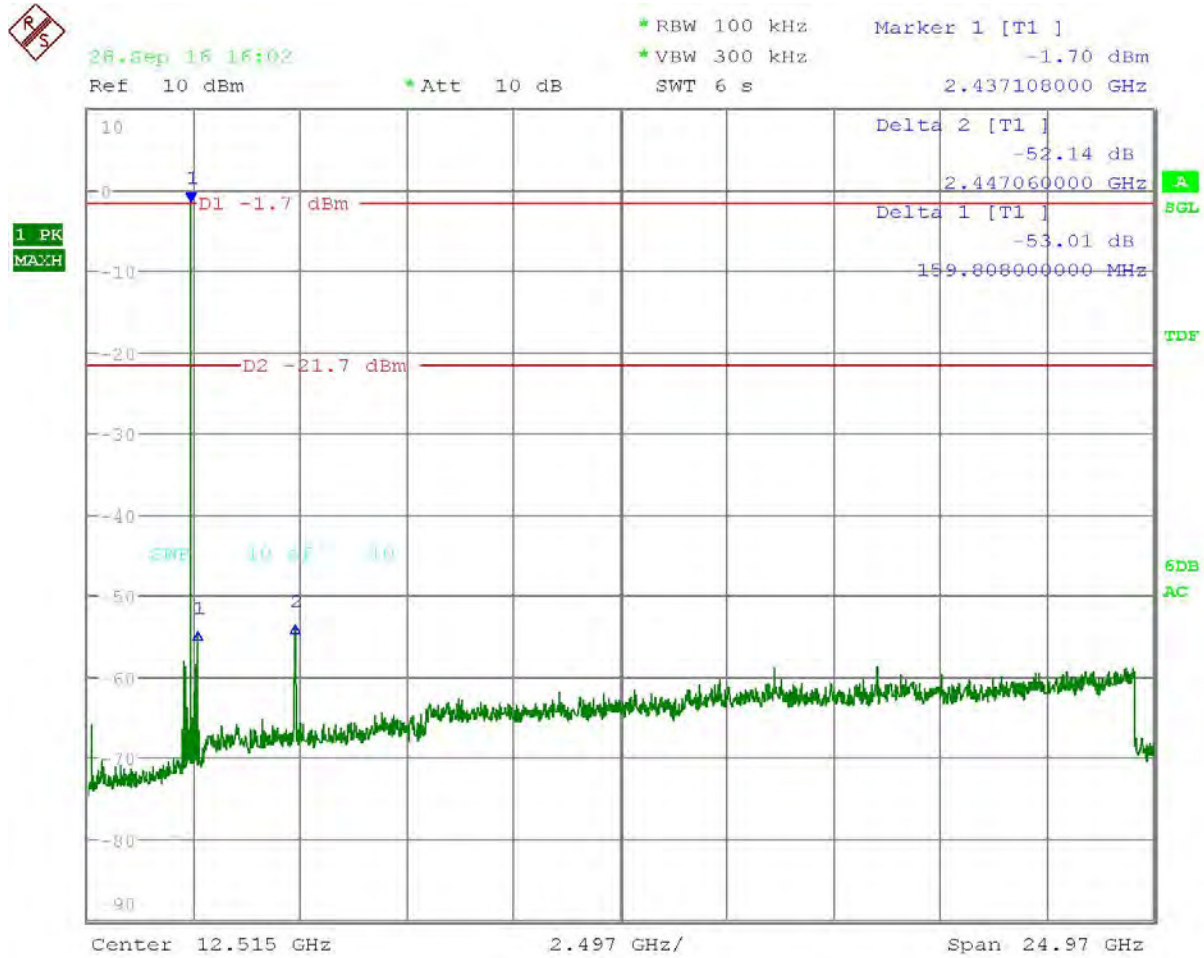
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 1 Middle of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:02:20

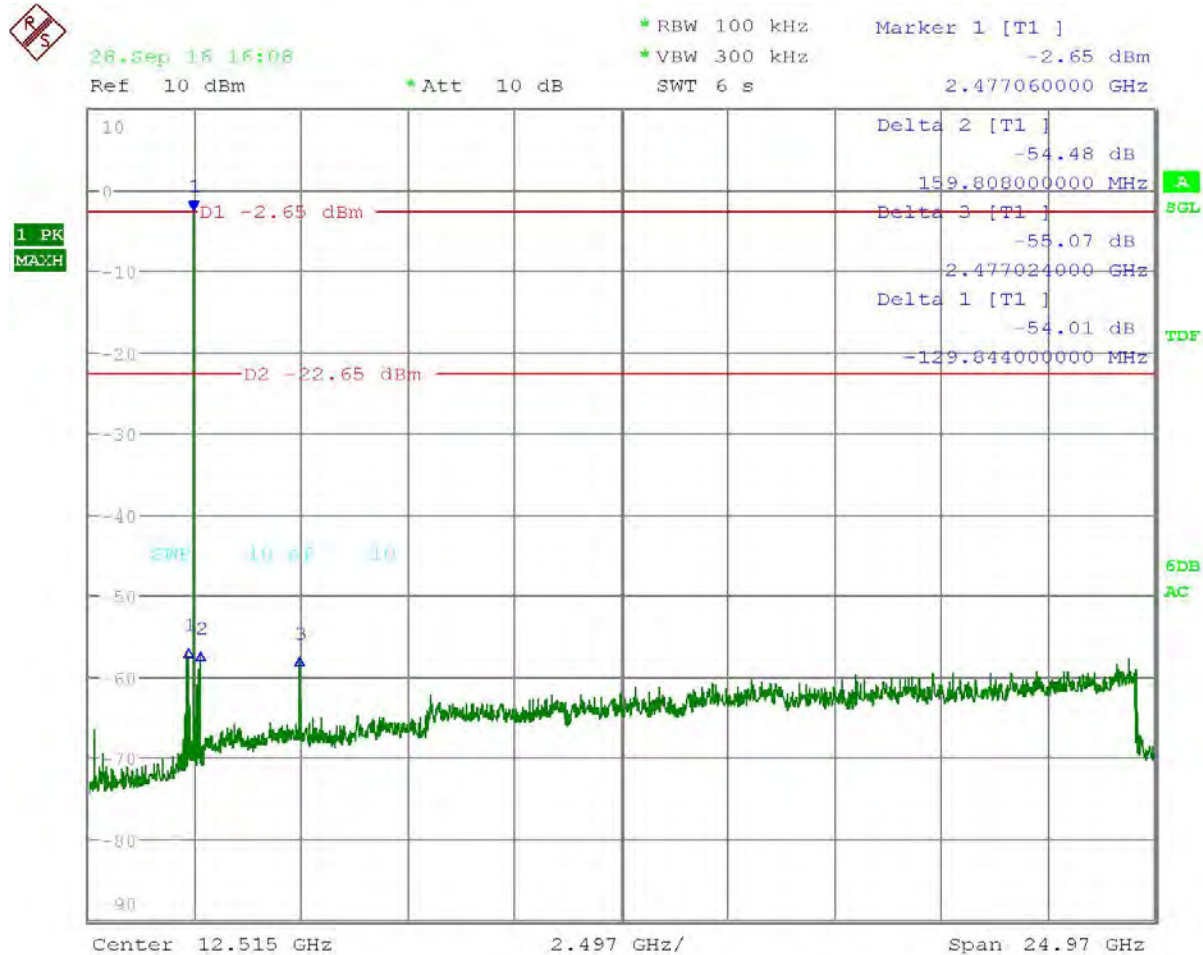
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 1 High End of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:08:01

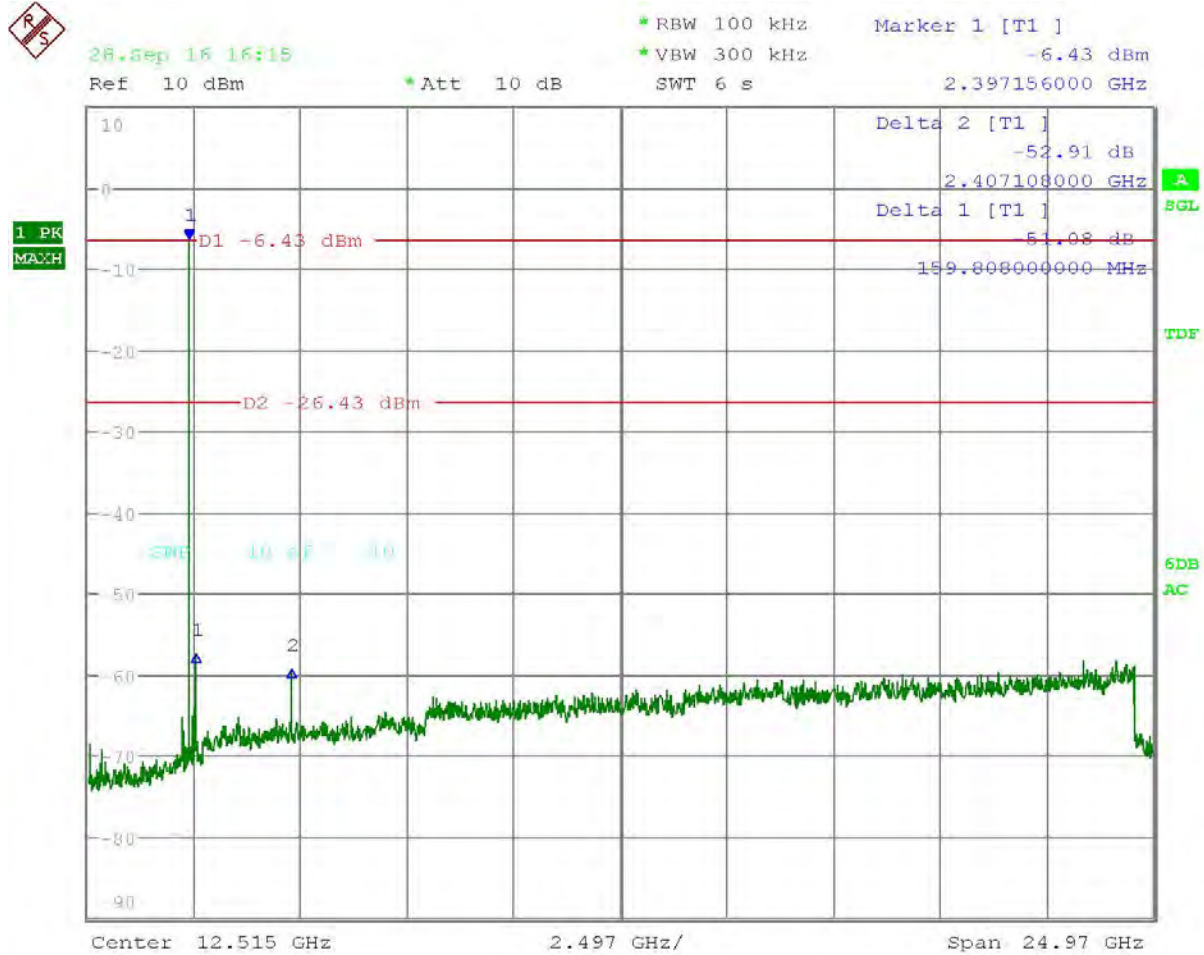
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 2 Low End of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:15:58

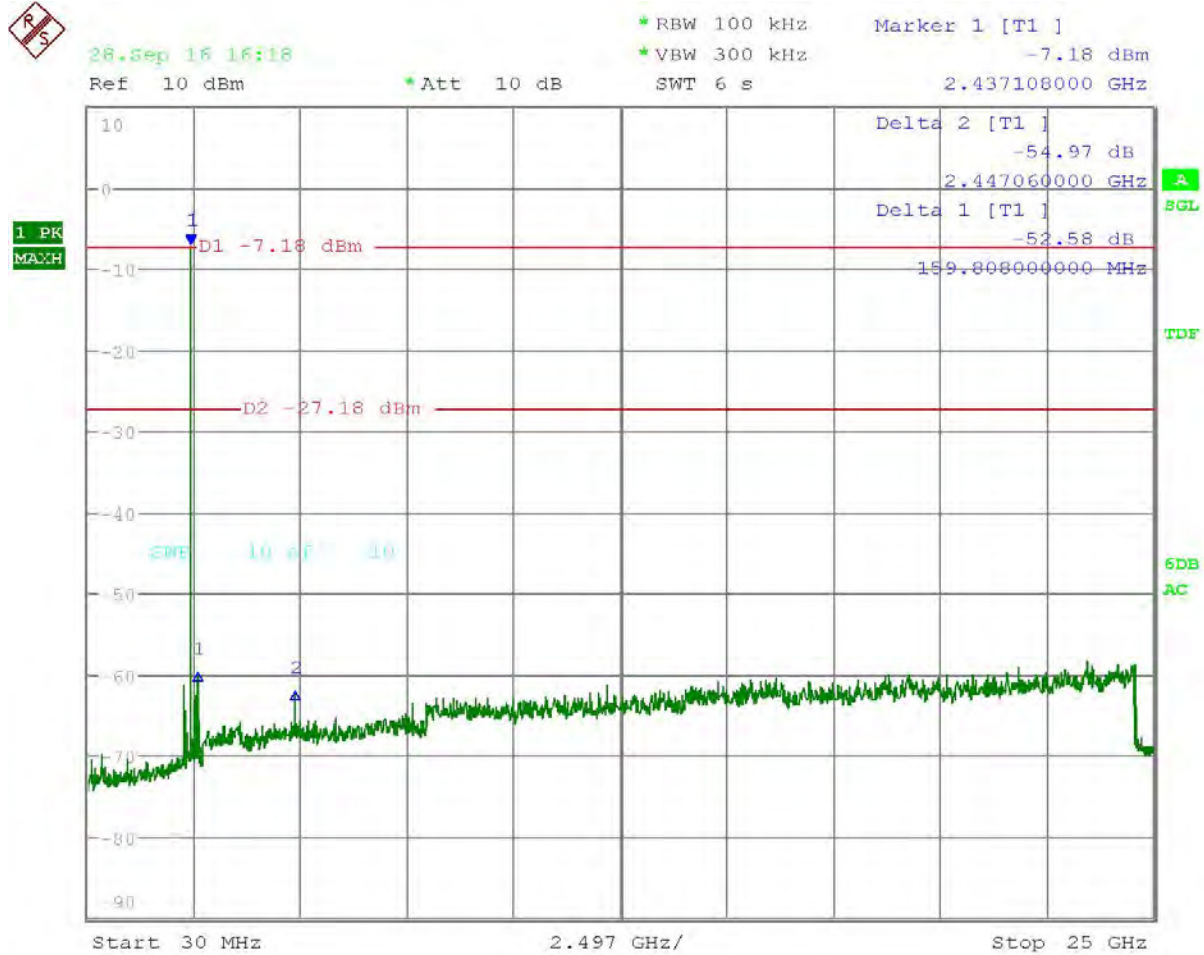
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 2 Middle of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:18:12

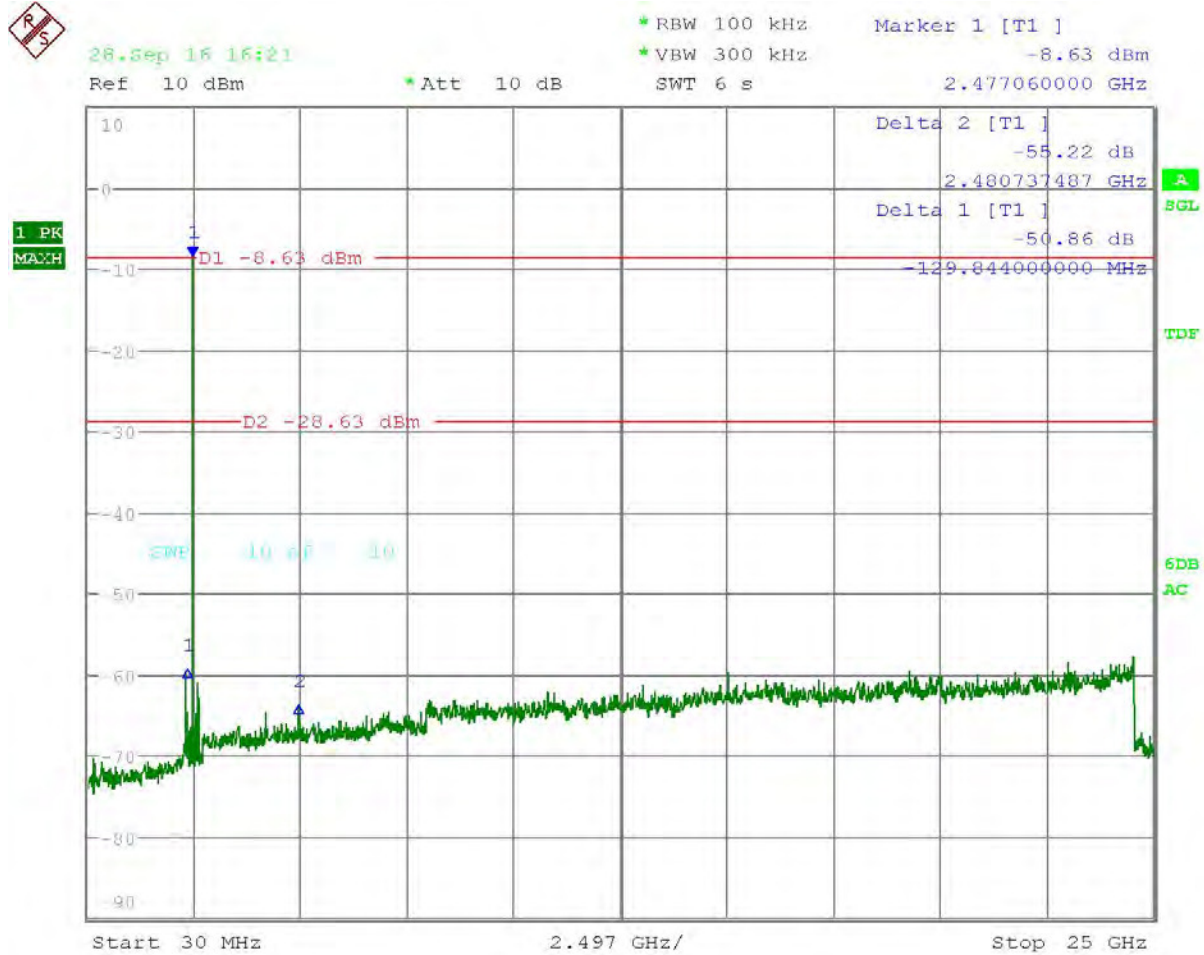
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 2 High End of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:21:15

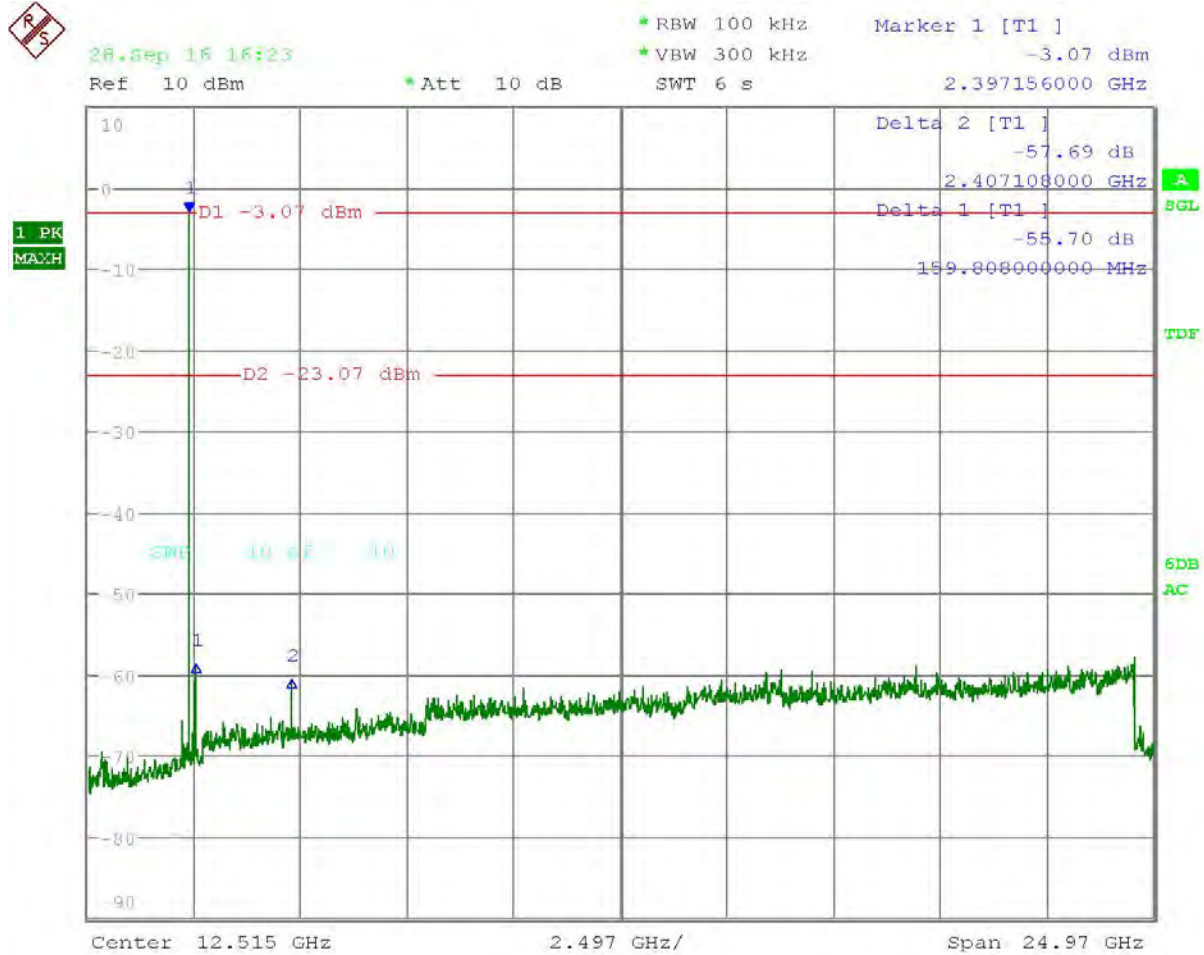
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 3 Low End of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:23:27

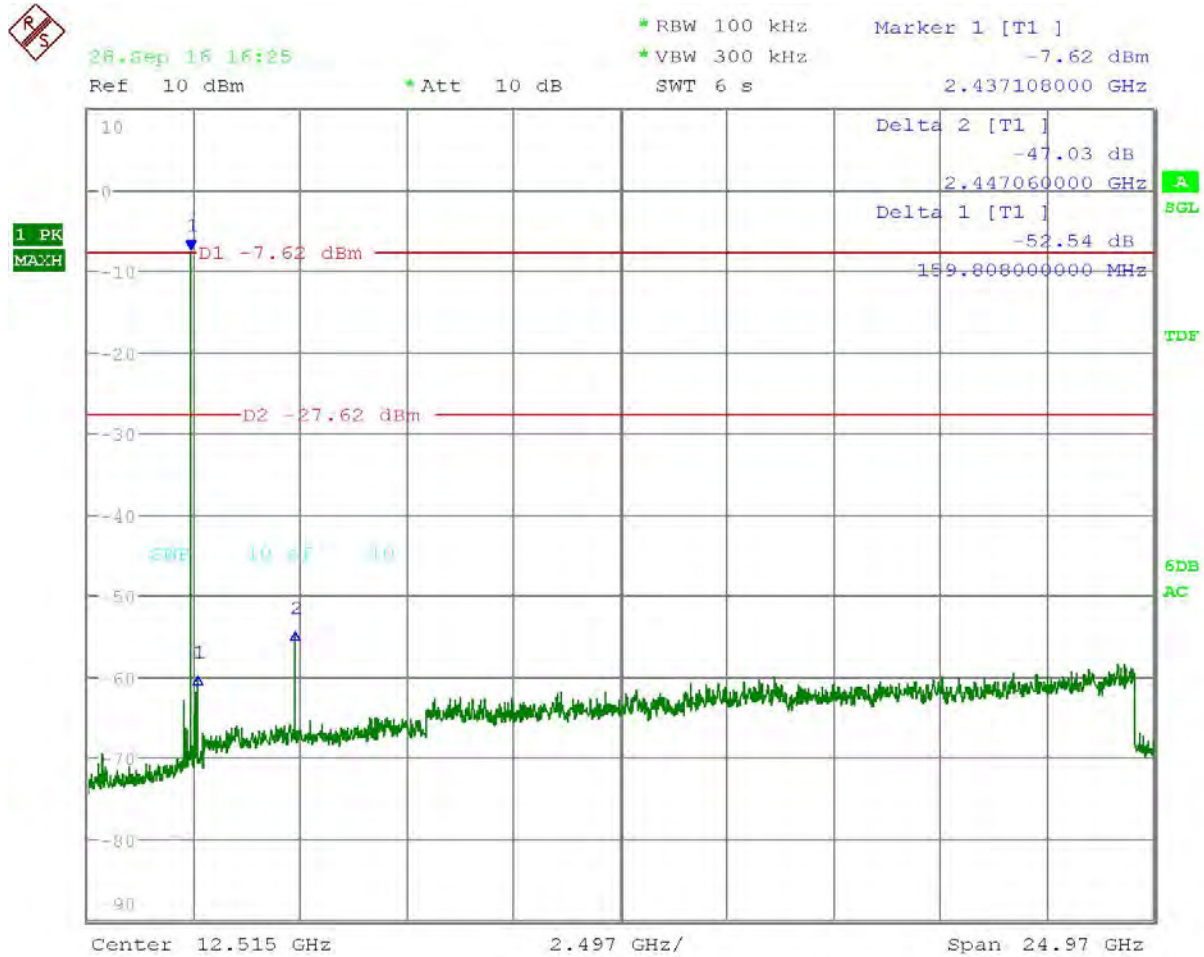
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949AUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 3 Middle of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:25:53

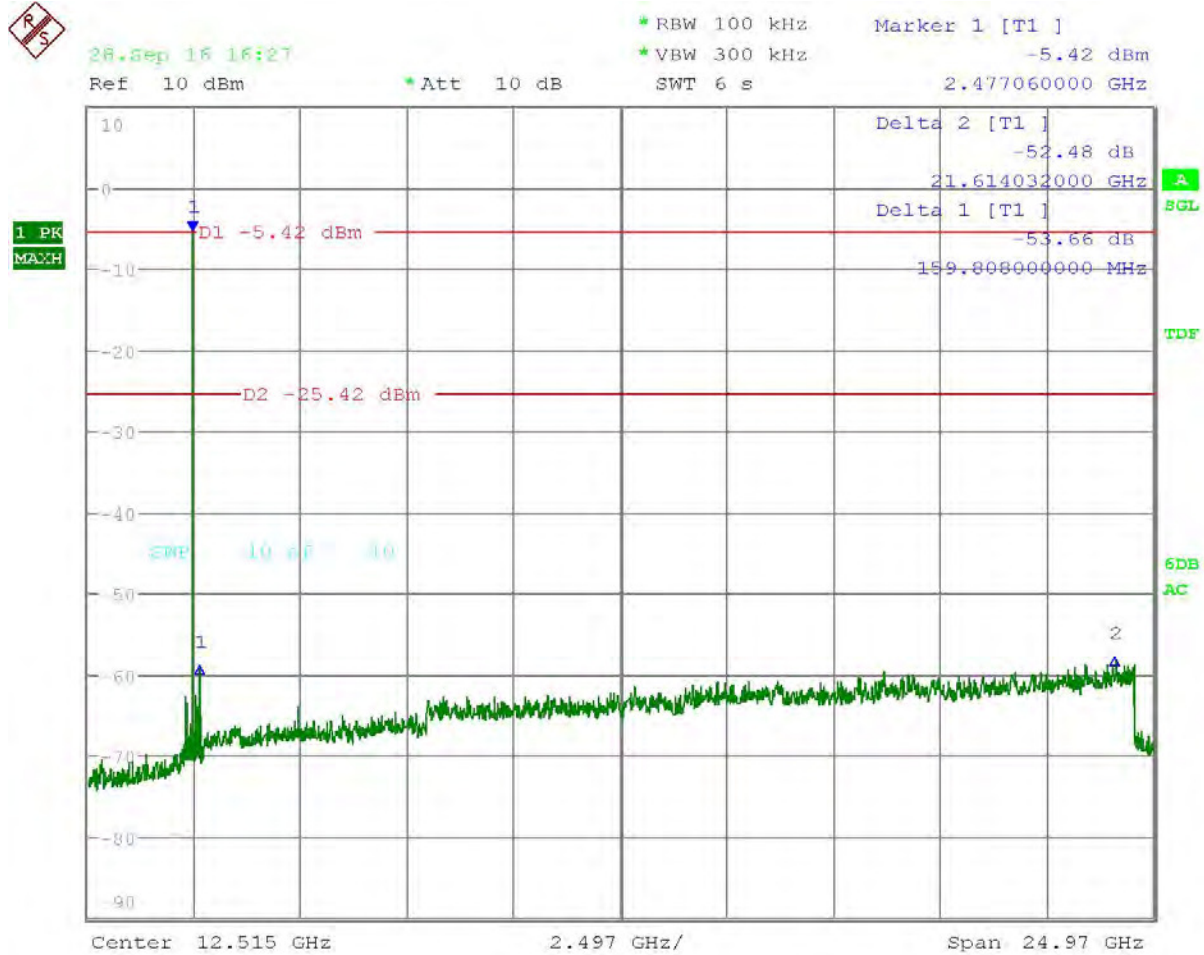
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: Mode 3 High End of Band 30 MHz – 25 GHz Plot



Date: 28.SEP.2016 16:27:41

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
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RADIATED SPURIOUS EMISSIONS

Rules Part No.: FCC part 15.247 (d) & 15.209, IC RSS 247 § 5.5 & RSS GEN § 8.9

Requirements: Emissions found in restricted bands the levels must comply with the general limits found in FCC part 15.209

Frequency	Limits
FCC Part 15.209, IC RSS-GEN 8.9	
9 to 490 kHz	2400/F (kHz) μ V/m @ 300 meters
490 to 1705 kHz	24000/F (kHz) μ V/m @ 30 meters
1705 kHz to 30 MHz	29.54 dB μ V/m @ 30 meters
30 – 88	40.0 dB μ V/m @ 3 meters
80 – 216	43.5 dB μ V/m @ 3 meters
216 – 960	46.0 dB μ V/m @ 3 meters
Above 960	54.0 dB μ V/m @ 3 meters

Test Method: ANSI C63.4 § Annex D Validation of radiated emissions standard test sites
 ANSI C63.10 § 6.3 Common requirements radiated emissions
 ANSI C63.10 § 6.4 Emissions below 30 MHz
 ANSI C63.10 § 6.5 Emissions between 30 & 1000 MHz
 ANSI C63.10 § 6.6 Emissions above 1 GHz

Field Strength Calculation:

The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer plus the coax loss. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

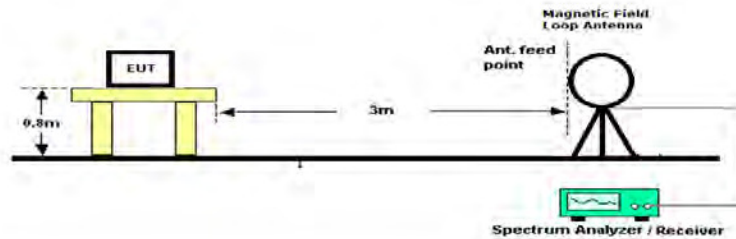
Example:

Freq (MHz)	Meter Reading	+ ACF	+ CL = FS
33	20 dB μ V	+ 10.36 dB	+ 0.5 = 30.86 dB μ V/m @ 3m

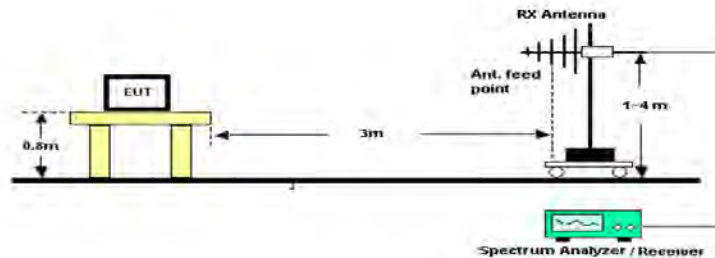
RADIATED SPURIOUS EMISSIONS

Setup:

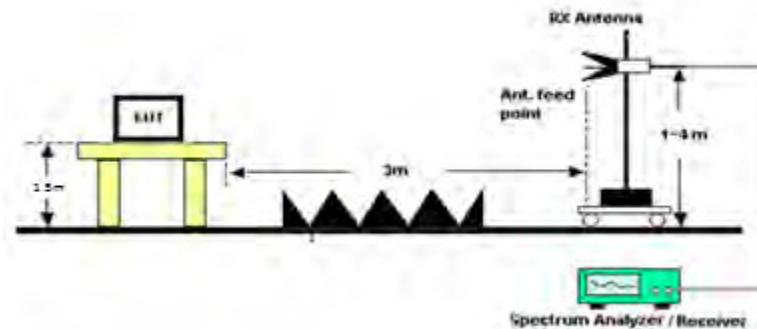
Emissions below 30 MHz



Emissions 30 – 1000 MHz



Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

Notes: The EUT was checked in three orthogonal planes as required, a setup photo is provided to show the orientation of the worst case position.

The mode producing the worst case power output and conducted emissions was selected for testing. The spectrum was measured from 9 KHz to 25 GHz, emissions discovered in bands listed in 15.205 were compared with the limit of 15.209 and only emissions found within 20dB of the limit are reported.

Test Data: Mode 1 Restricted Band Emissions Measurement Table

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector (QP/PK/AV)	Meter Reading (dBuV)	Ant. Polarity (H/V)	Coax Loss (dB)	Correction Factor (dB/m)	Field Strength (dBuV/m)	Margin (dB)
Hopping	135.2	PK	11.8	V	1.3	14.0	27.2	16.3
Hopping	609.3	PK	15.1	H	2.8	18.6	36.6	9.4
Hopping	1,015.2	PK	24.0	V	3.7	27.2	54.8	19.2
Hopping	1,015.2	AV	2.8	V	3.7	27.2	33.6	20.4
Hopping	1,425.8	PK	26.2	H	4.3	29.0	59.5	14.5
Hopping	1,425.8	AV	5.0	H	4.3	29.0	38.3	15.7
Hopping	1,472.9	PK	22.3	V	4.4	28.5	55.2	18.8
Hopping	1,472.9	AV	1.1	V	4.4	28.5	33.9	20.1
Hopping	1,920.5	PK	26.5	H	5.0	31.9	63.4	10.6
Hopping	1,920.5	AV	5.3	H	5.0	31.9	42.1	11.9
2,402.0	4,804.0	AV	-1.8	V	8.1	34.0	40.3	13.7
2,402.0	4,804.0	PK	9.1	V	8.1	34.0	51.1	22.9
2,441.0	4,882.0	AV	5.2	V	8.1	33.9	47.3	6.7
2,441.0	4,882.0	PK	10.5	V	8.1	33.9	52.6	21.4
2,441.0	7,323.0	AV	4.9	H	10.0	35.6	50.5	3.6
2,441.0	7,323.0	PK	7.3	H	10.0	35.6	52.9	21.1
2,480.0	4,960.0	PK	8.6	V	8.2	34.0	50.7	23.3
2,480.0	4,960.0	AV	-2.1	V	8.2	34.0	40.1	13.9

Results Meet Requirements



EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Attenuator #27 - K 6dB 2W DC-40	Narda	4768-6	1044-3 (#27)	06/25/15	06/25/17
DC Power Supply	HP	6286A	1744A03842	NA	NA
Antenna: Biconical 1096 Chamber	Eaton	94455-1	1096	07/14/15	07/14/17
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	07/14/15	07/14/17
CHAMBER	Panashield	3M	N/A	04/25/16	12/31/17
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren Chamber	3117	00041534	02/25/15	02/25/17
EMI Test Receiver R & S ESIB 40 Screen Room	Rohde & Schwarz	ESIB 40	100274	08/16/16	08/16/18
Software: Field Strength Program	Timco	N/A	Version 4.0	NA	NA
Antenna: Active Loop	ETS-Lindgren	6502	00062529	11/18/15	11/18/17
Coaxial Cable #103 - KMKM-0180-01 Aqua	Micro-Coax	UFB142A-0-0720-200200	225363-002 (#103)	08/05/15	08/05/17
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/18
Coaxial Cable - KMKM-0100-00 Blue	Sucoflex	NA	KMKM-0100-00	NA	NA
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	08/08/16	08/08/18
Band Reject Filter - 2.4 GHz	Micro-Tronics	BRM50702-02	-G042	7/15/16	7/15/18
Antenna: Double-Ridged Horn 18-40 GHz	EMCO	3116	9011-2145	11/18/15	11/18/17
Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	01/04/16	01/04/18

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

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