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FCC PART 15.247 & IC RSS-247

2.4 GHz DTS

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
1949BUT16TestReport_	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
FCC ID: BBO29BT2K17
IC: 906A-29BT2K17
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GENERAL INFORMATION

EUT Specification

Regulatory Standards	FCC Title 47 CFR Part 15.247 IC RSS-247 Issue 1 IC RSS-GEN Issue 4		
FCC ID	BBO29BT2K17		
IC	906A-29BT2K17		
Model	RB106		
EUT Description	BLUE TOOTH MODULE		
Modulation Type	Bluetooth LE (GFSK 1 Mbps)		
Operating Frequency	TX: 2402 – 2480 MHz	RX: 2402 – 2480 MHz	
EUT Power Source	☐ 110–120Vac/ 50– 60Hz (While in charging Cradle)		
	☒ DC Power 13.6 VDC Nominal		
	☐ Battery Operated		
Test Item	☐ Prototype	☒ Pre-Production	☐ Production
Type of Equipment	☐ Fixed	☒ Mobile	☐ Portable
Antenna Connector	None (Temp 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 (Measurement Procedures) ANSI C63.4-2009 (Radiated Site Validation)		
Test Exercise	The EUT was tested in a continuous transmission mode		

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
 FCC ID: BBO29BT2K17
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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
15.247(a)(e)	RSS-247 § 5.2	Digital Transmission Systems	6 dB Bandwidth	Pass
			Power Spectral Density	Pass
15.247(b)	RSS-247 § 5.4	Transmitter Output Power and Equivalent Isotropically Radiated Power	Peak Power Output (Pcond)	Pass
			Antenna Gain (EIRP)	Pass
15.247(d)	RSS-247 § 5.5	Unwanted Emissions	Bandedge	Pass
			Radiated Spurious	Pass

Notes:

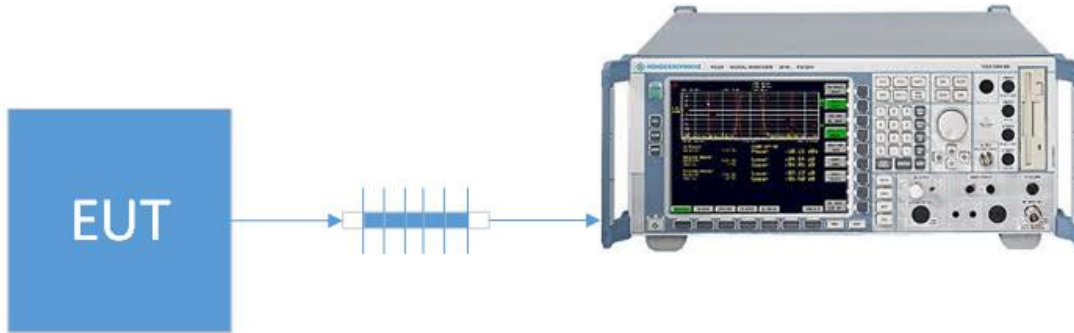
DTS BANDWIDTH

Rules Part No.: FCC 15.247 (a)(2) , IC RSS 247 § 5.2.1

Requirements: The minimum 6 dB bandwidth shall be 500 kHz.

Test Method: ANSI C63.10 § 11.8.1 DTS Bandwidth Option 1

Setup:



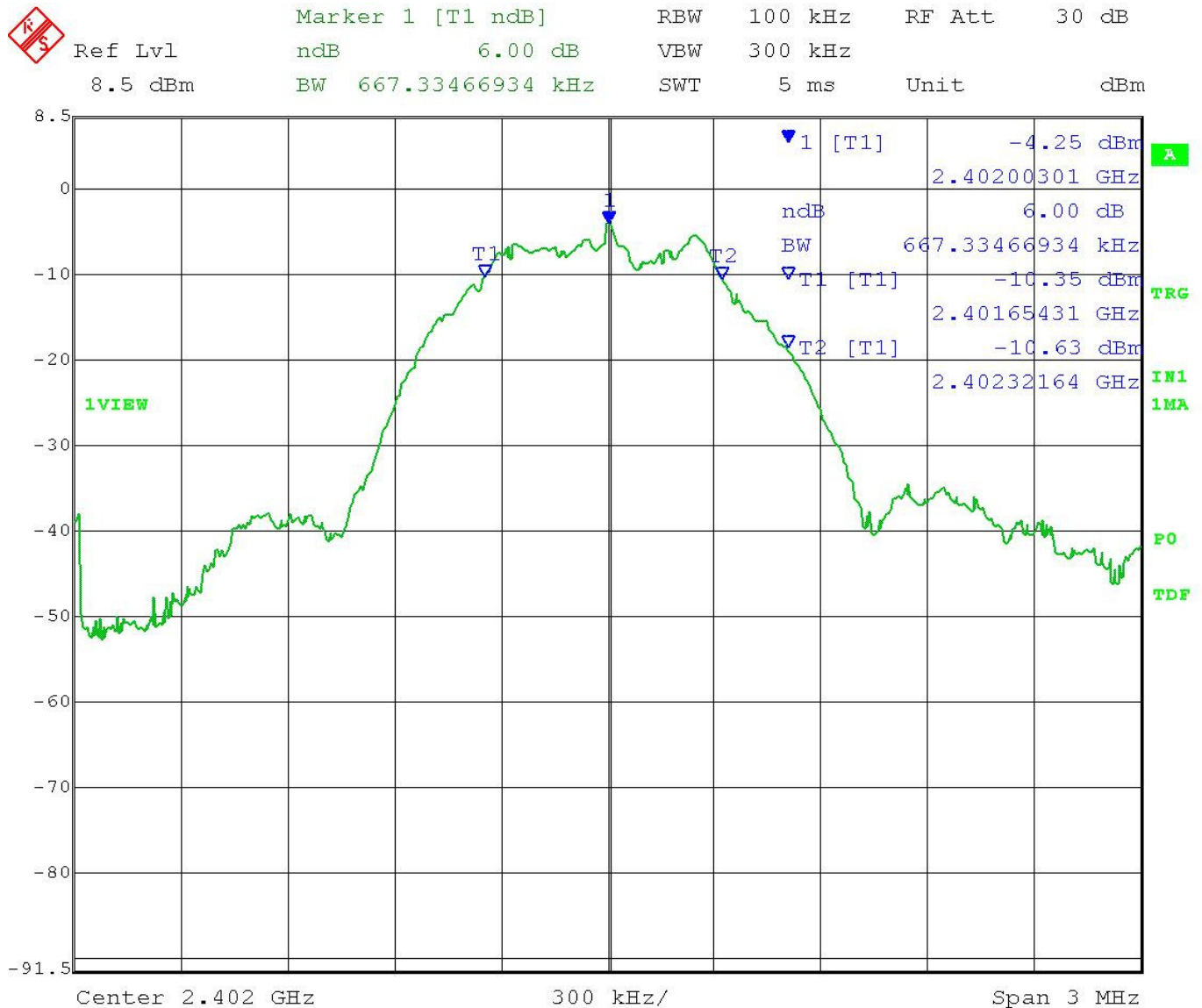
Test Data: 6 dB Occupied Bandwidth Measurement Table

Tuned Frequency (MHz)	6 dB BW (KHz)	Limit (KHz)	Margin (KHz)
2402	667.3	≥ 500	167.3
2440	697.3	≥ 500	197.3
2480	691.3	≥ 500	191.3

RESULTS: Meets Requirements

DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot Low End of Band



Date: 29.SEP.2016 11:14:39

RESULTS: Meets Requirements

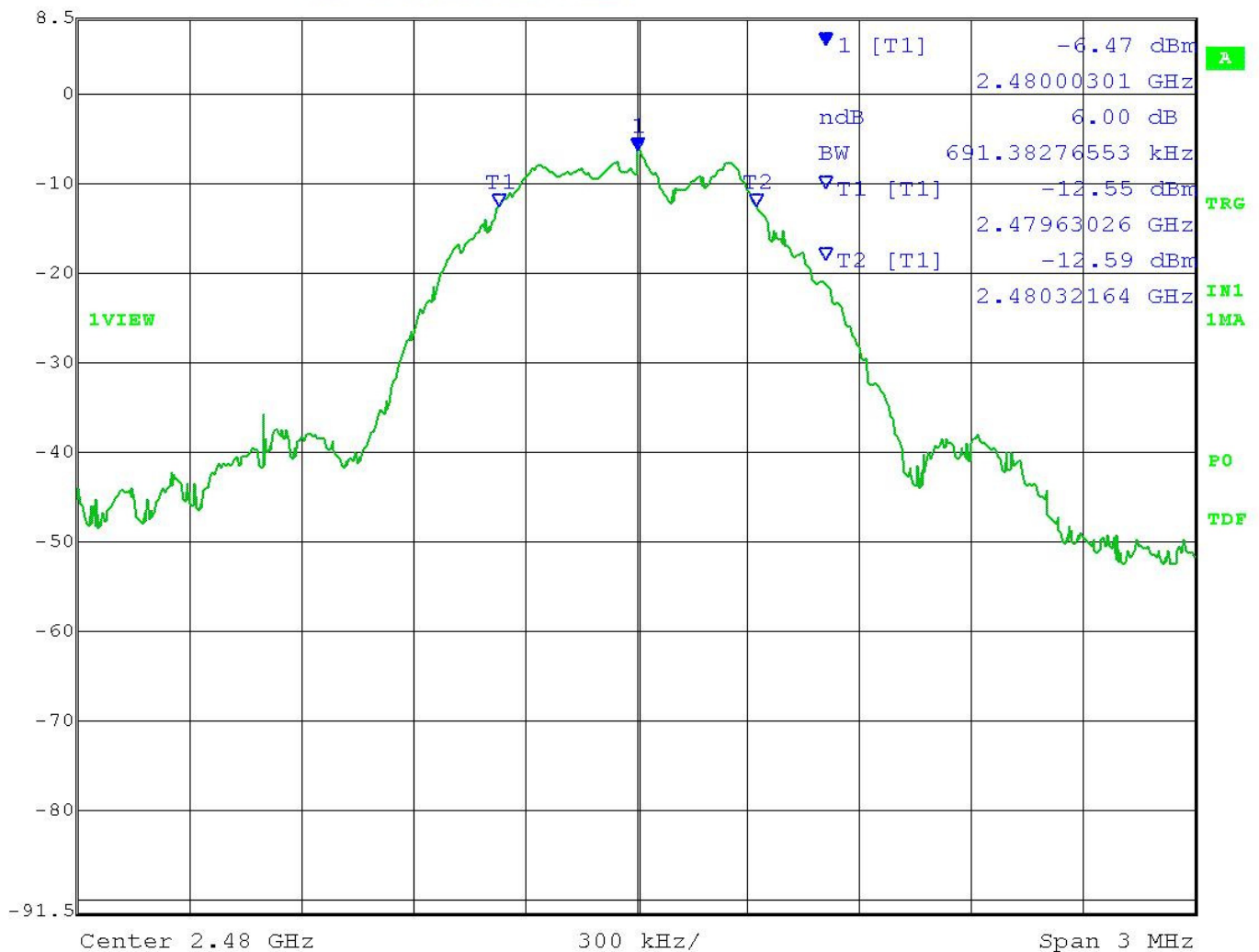
Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
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DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot High end of Band


 Ref Lvl 8.5 dBm
 Marker 1 [T1 ndB] 6.00 dB
 BW 691.38276553 kHz
 RBW 100 kHz
 VBW 300 kHz
 SWT 5 ms
 RF Att 30 dB
 Unit dBm



Date: 29.SEP.2016 11:07:16

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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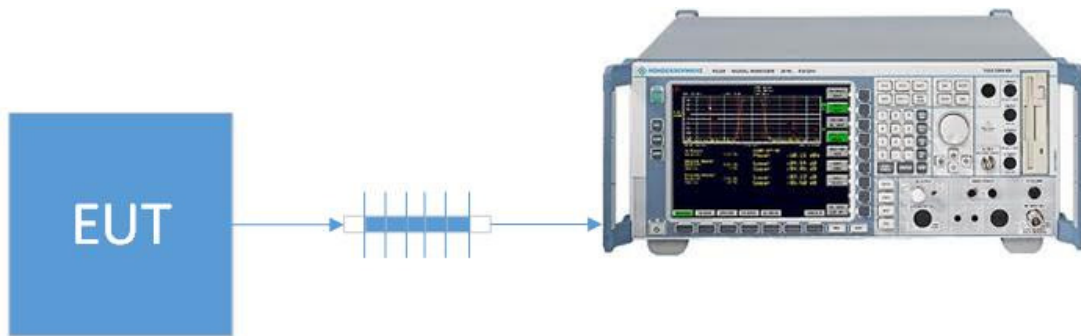
PEAK POWER OUTPUT

Rules Part No.: FCC 15.247(b) (3) (4), IC RSS 247 § 5.4.4

Requirements: Maximum Conducted Peak Power Output shall not exceed 1 Watt
Also the Peak Power Output shall not exceed 4 Watts EIRP

Test Method: ANSI C63.10 § 11.2 Power Limits, definitions, and device configuration
ANSI C63.10 § 11.9.1.1 Fundamental Output Power RBW $\geq$ DTS Bandwidth
ANSI C63.10 § Annex G Relationship among Field Strength and ERP/EIRP

Setup:



PEAK POWER OUTPUT

Test Data: Peak Conducted Power Output Measurement Table

Peak Conducted Power Output Measurement				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	P _{Conducted} (W)	Limit (W)	Margin (W)
2402	-3.3	0.00047	1.00	0.99953
2440	-4.8	0.00033	1.00	0.99967
2480	-5.6	0.00027	1.00	0.99973

ERP to EIRP Conversion formula: $EIRP = ERP + 2.15 \text{ dB}$

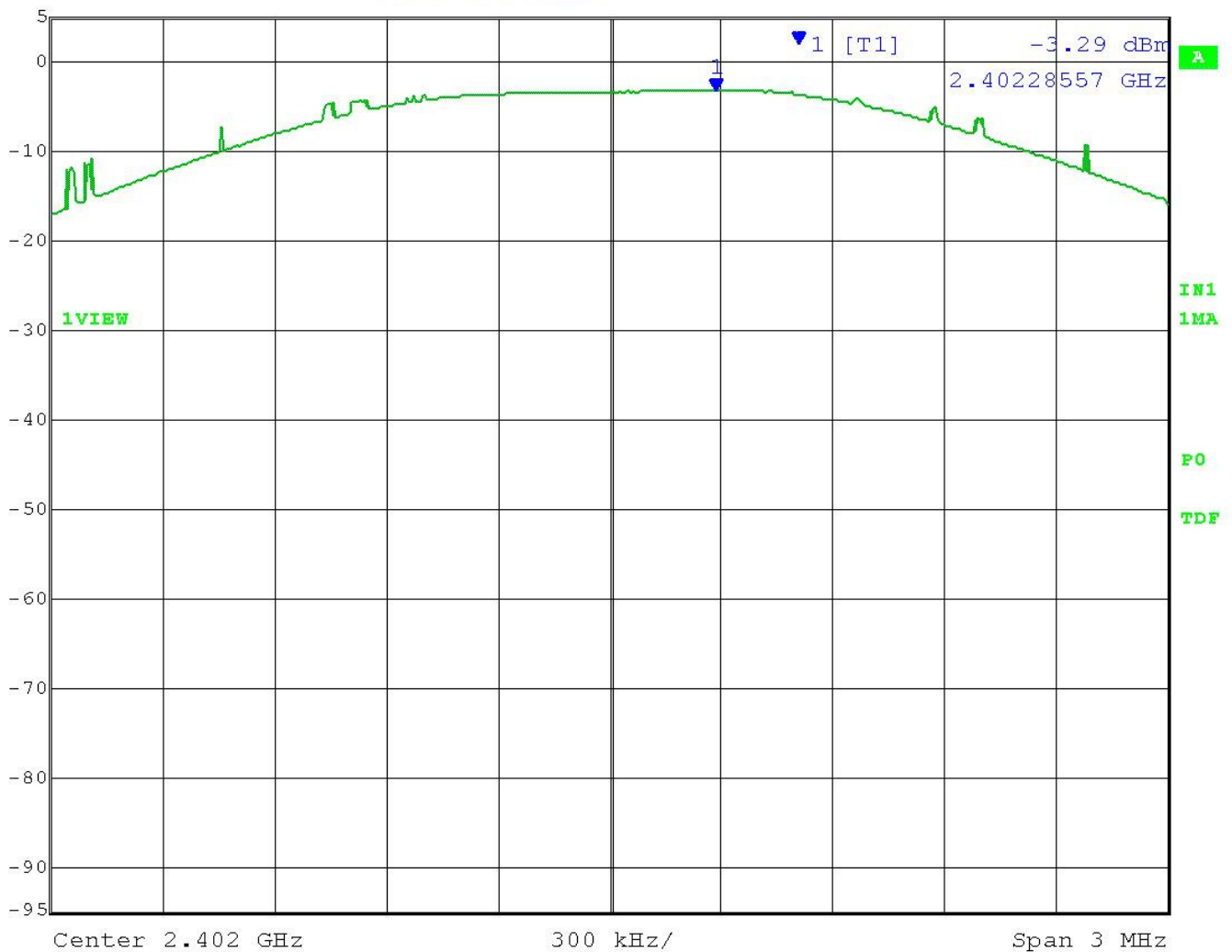
Peak EIRP Power Output Calculation				
Tuned Frequency (MHz)	P _{Conducted} (dBm)	EIRP (W)	Limit (W)	Margin (W)
2402	-3.29	0.00077	4.00	3.99923
2440	-4.8	0.00054	4.00	3.99946
2480	-5.62	0.00045	4.00	3.99955

RESULTS: Meets Requirements

PEAK POWER OUTPUT

Test Data: Peak Power Output Plot Low End of Band


 Ref Lvl 5 dBm Marker 1 [T1] -3.29 dBm RBW 1 MHz RF Att 20 dB
 2.40228557 GHz VBW 3 MHz Unit dBm
 SWT 5 ms



Date: 29.SEP.2016 10:39:49

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

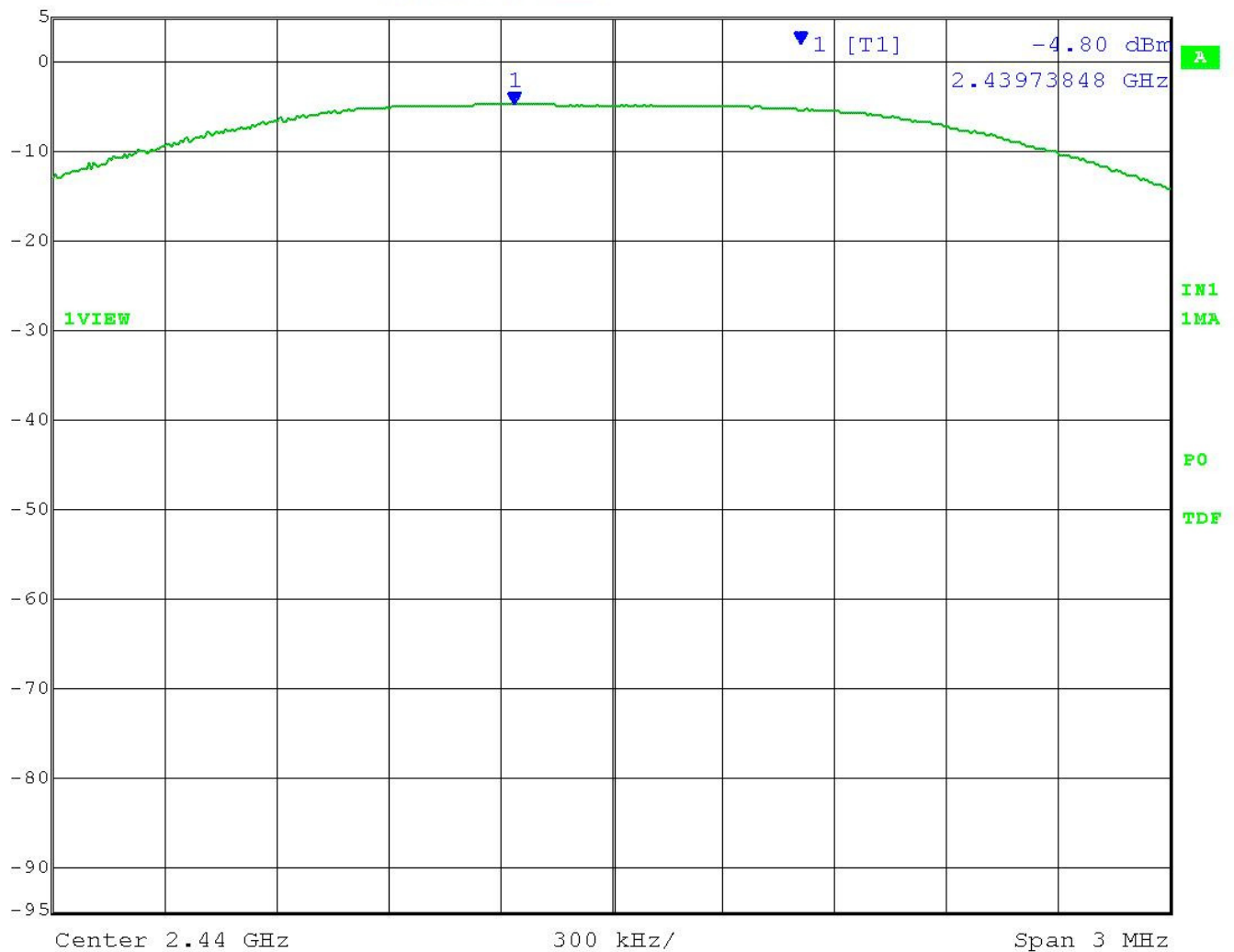
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PEAK POWER OUTPUT

Test Data: Peak Power Output Plot Middle of Band



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
5 dBm	-4.80 dBm	VBW	3 MHz		
	2.43973848 GHz	SWT	5 ms	Unit	dBm



Date: 29.SEP.2016 10:54:55

RESULTS: Meets Requirements

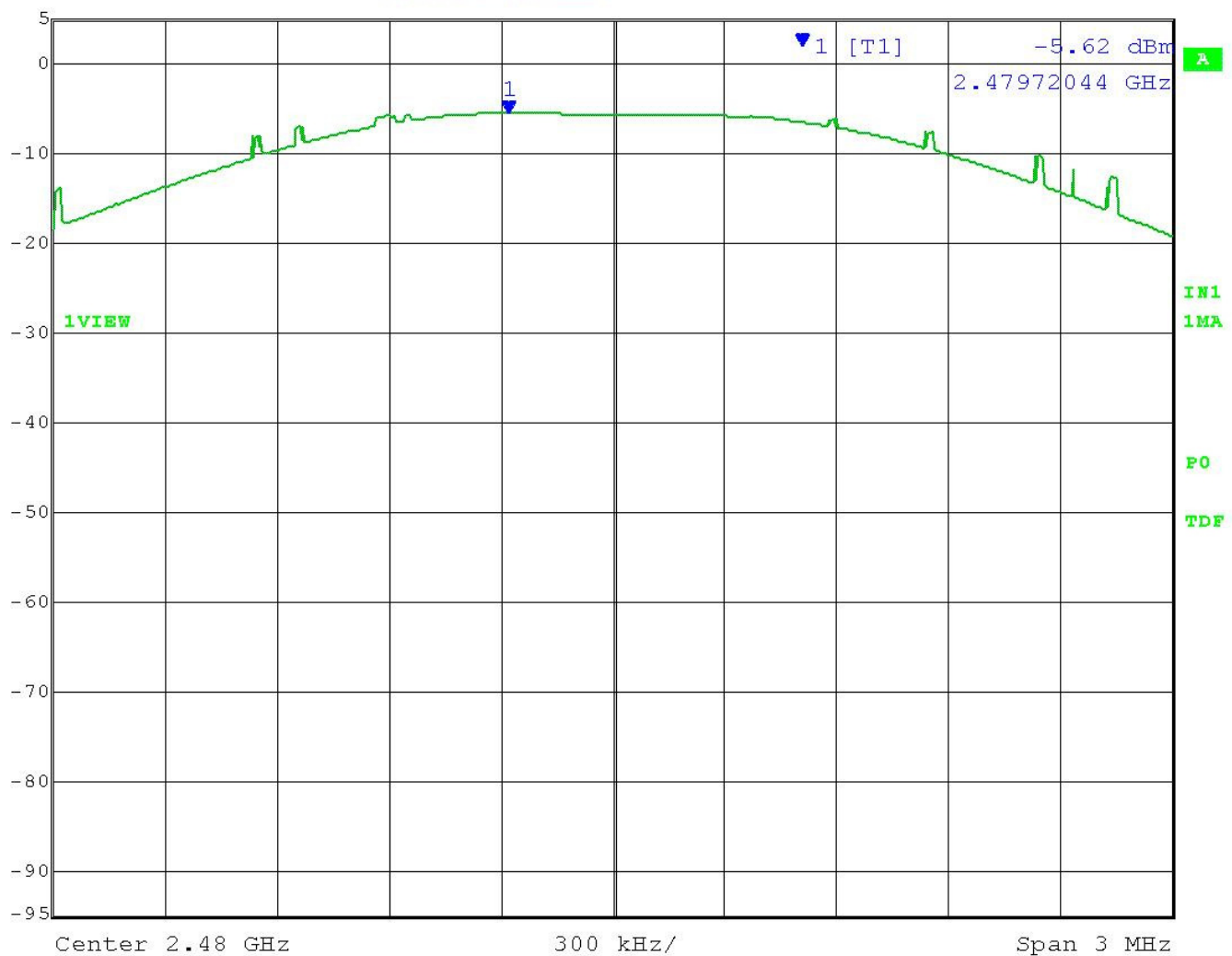
Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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PEAK POWER OUTPUT

Test Data: Peak Power Output High End of Band


 Ref Lvl 5 dBm Marker 1 [T1] -5.62 dBm RBW 1 MHz RF Att 20 dB
 2.47972044 GHz VBW 3 MHz Unit dBm
 SWT 5 ms



Date: 29.SEP.2016 10:55:41

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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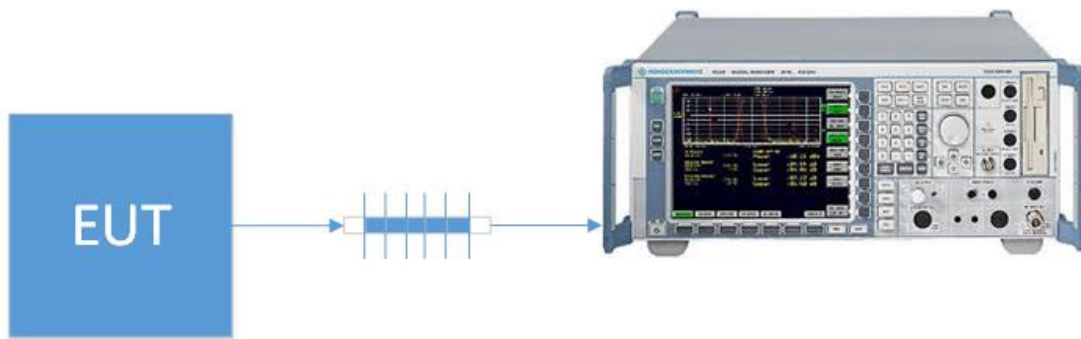
POWER SPECTRAL DENSITY

Rules Part No.: FCC 15.247(e), IC RSS 247 § 5.2.2

Requirements: The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Method: ANSI C63.10 § 11.2 Power Limits, definitions, and device configuration
ANSI C63.10 § 11.10.2 Maximum PSD in the fundamental- Method PKPSD

Setup:



POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Measurement Table

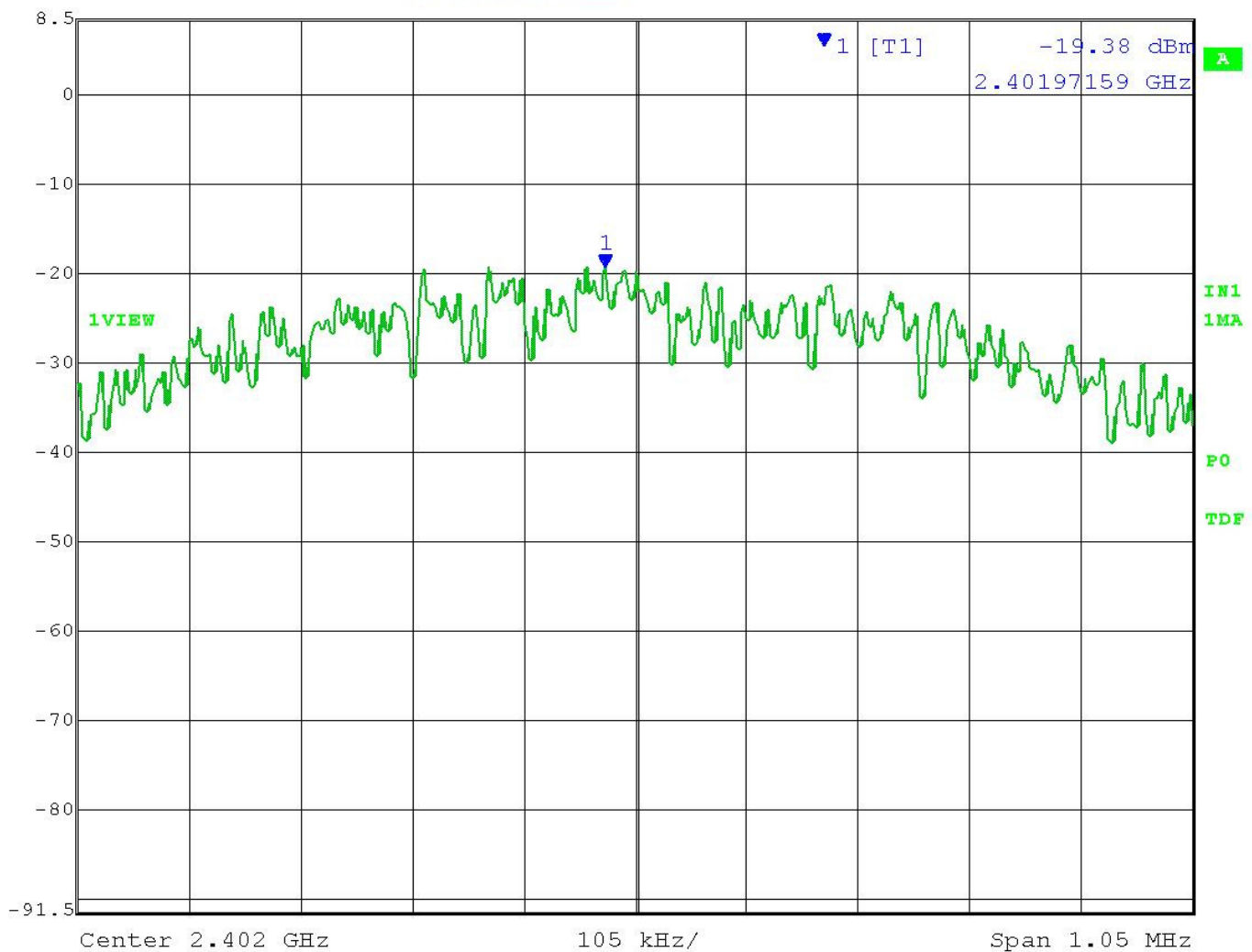
Peak Conducted Power Spectral Density			
Tuned Frequency (MHz)	Level (dBm/3KHz)	Limit (dBm/3KHz)	Margin (dB)
2402	-19.38	8.00	27.38
2440	-20.49	8.00	28.49
2480	-21.30	8.00	29.30

RESULTS: Meets Requirements

POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot Low End of Band


 Ref Lvl 8.5 dBm Marker 1 [T1] -19.38 dBm RBW 3 kHz RF Att 30 dB
 2.40197159 GHz VBW 10 kHz Unit dBm
 SWT 300 ms



Date: 29.SEP.2016 13:43:52

RESULTS: Meets Requirements

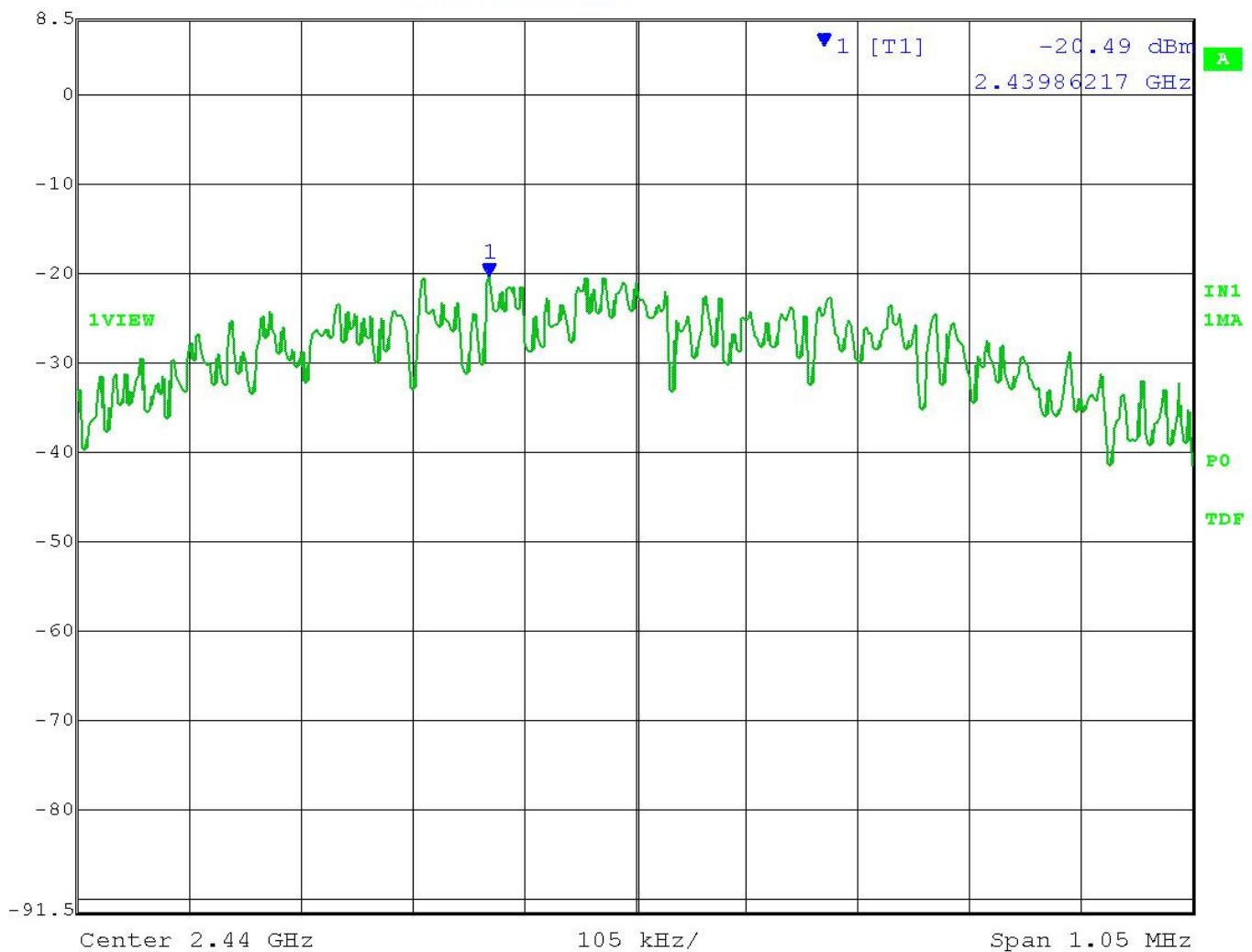
Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot Middle of Band


 Ref Lvl 8.5 dBm Marker 1 [T1] -20.49 dBm RBW 3 kHz RF Att 30 dB
 2.43986217 GHz VBW 10 kHz Unit dBm
 SWT 300 ms



Date: 29.SEP.2016 13:45:54

RESULTS: Meets Requirements

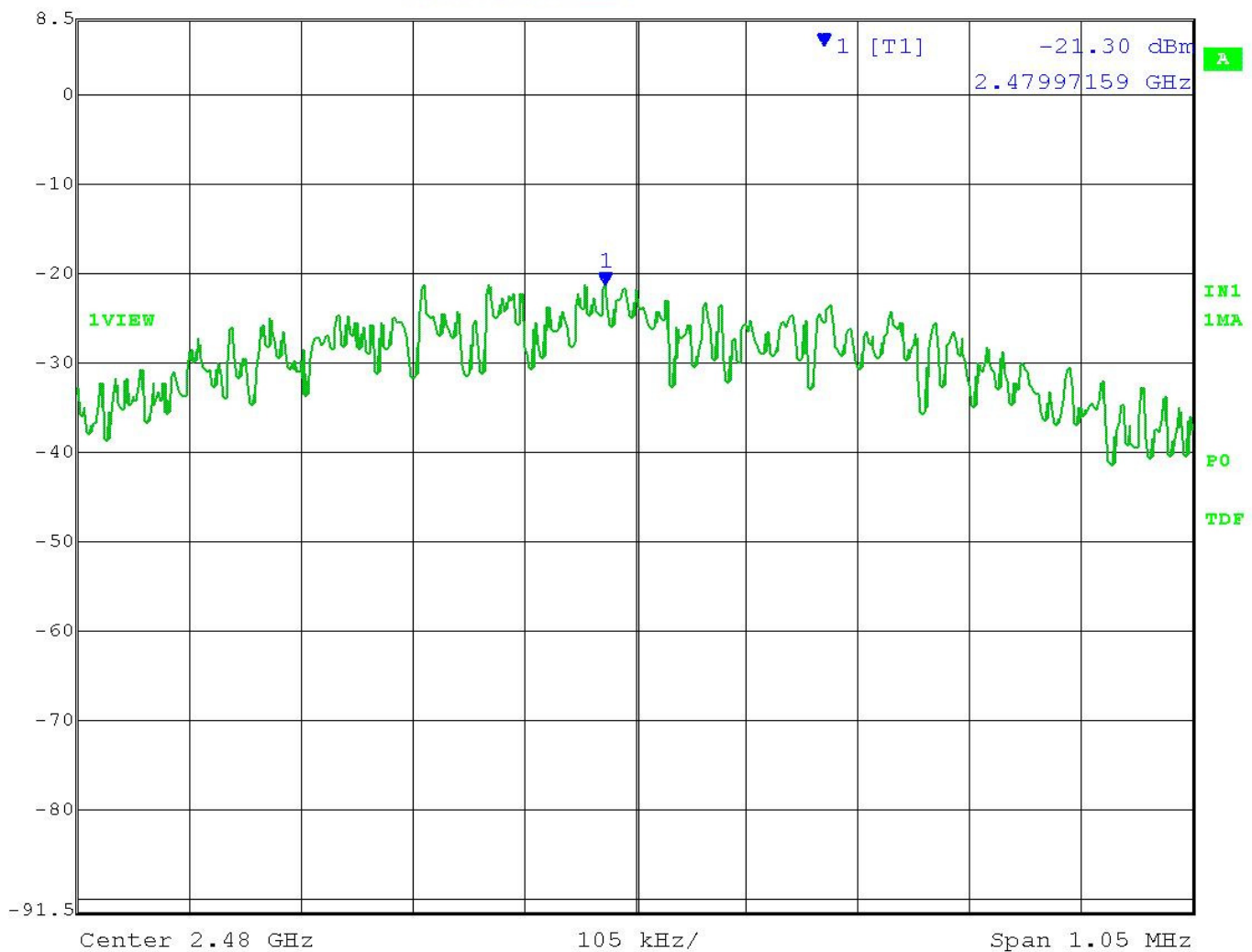
Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot High End of Band


 Ref Lvl 8.5 dBm Marker 1 [T1] -21.30 dBm RBW 3 kHz RF Att 30 dB
 2.47997159 GHz VBW 10 kHz Unit dBm
 SWT 300 ms



Date: 29.SEP.2016 13:46:46

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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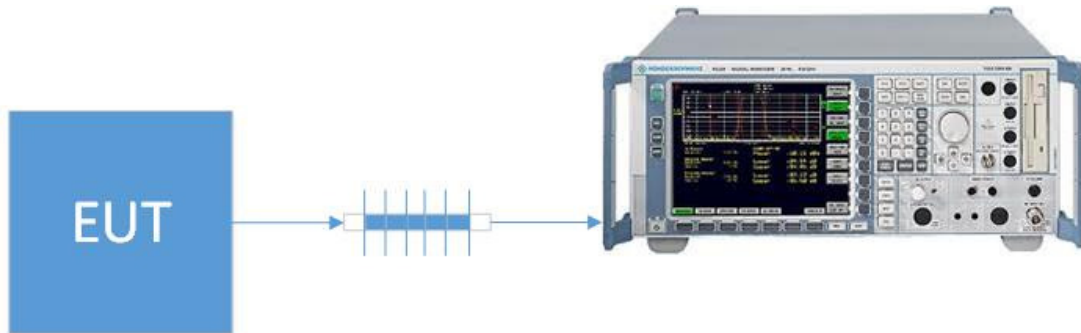
OCCUPIED BANDWIDTH

Rules Part No.: IC RSS GEN § 6.6

Requirements: The 99% Bandwidth is for reporting only.

Test Method: ANSI C63.10 § 6.9.3 Occupied Bandwidth- 99% Power Bandwidth procedure

Setup:



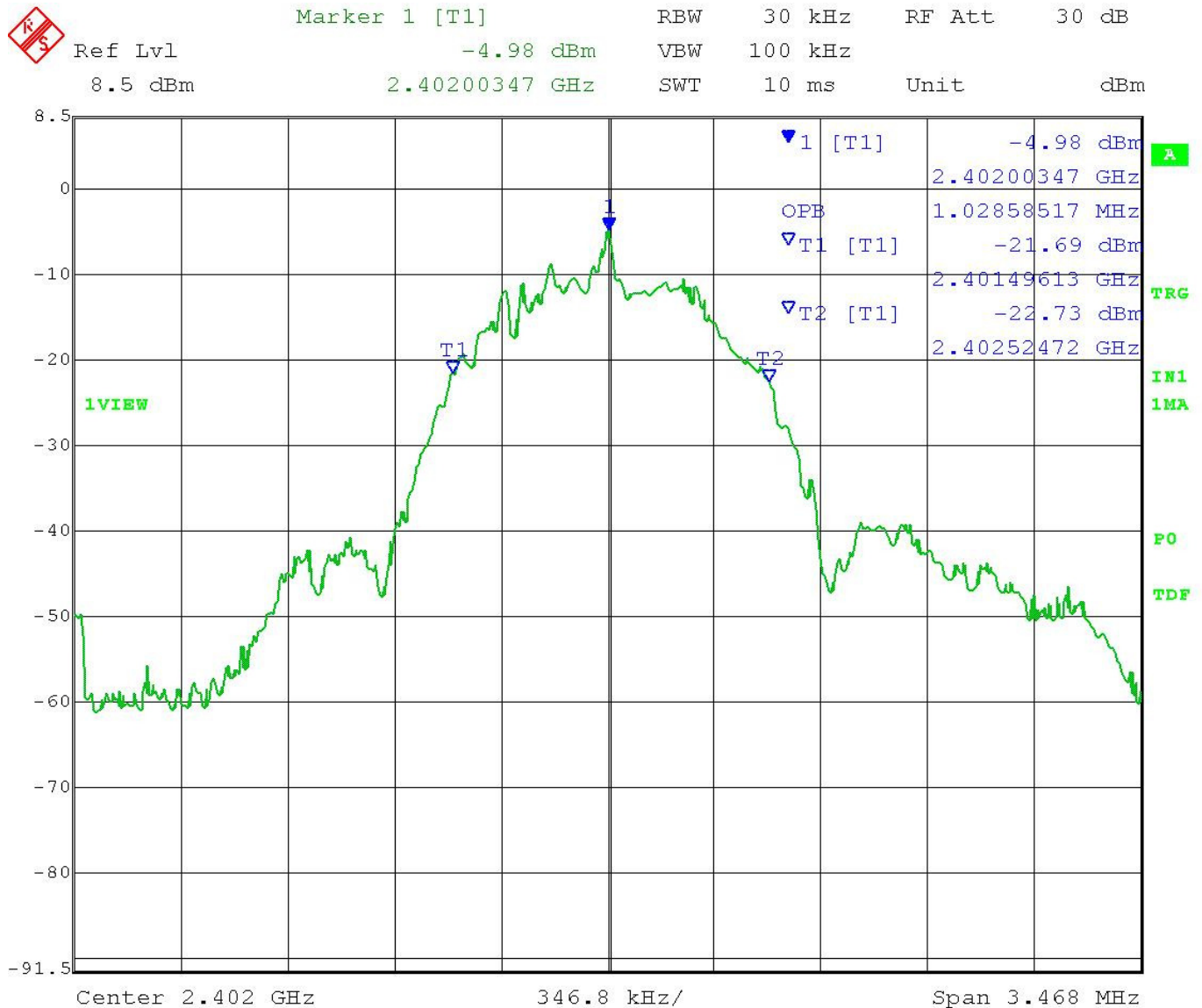
Test Data: 99% Occupied Bandwidth Measurement Table

Tuned Frequency (MHz)	99% BW (MHz)
2402	1.02
2440	1.02
2480	1.02

RESULTS: Meets Requirements

OCCUPIED BANDWIDTH

Test Data: 99% Bandwidth Plot Low End of Band



Date: 29.SEP.2016 11:00:51

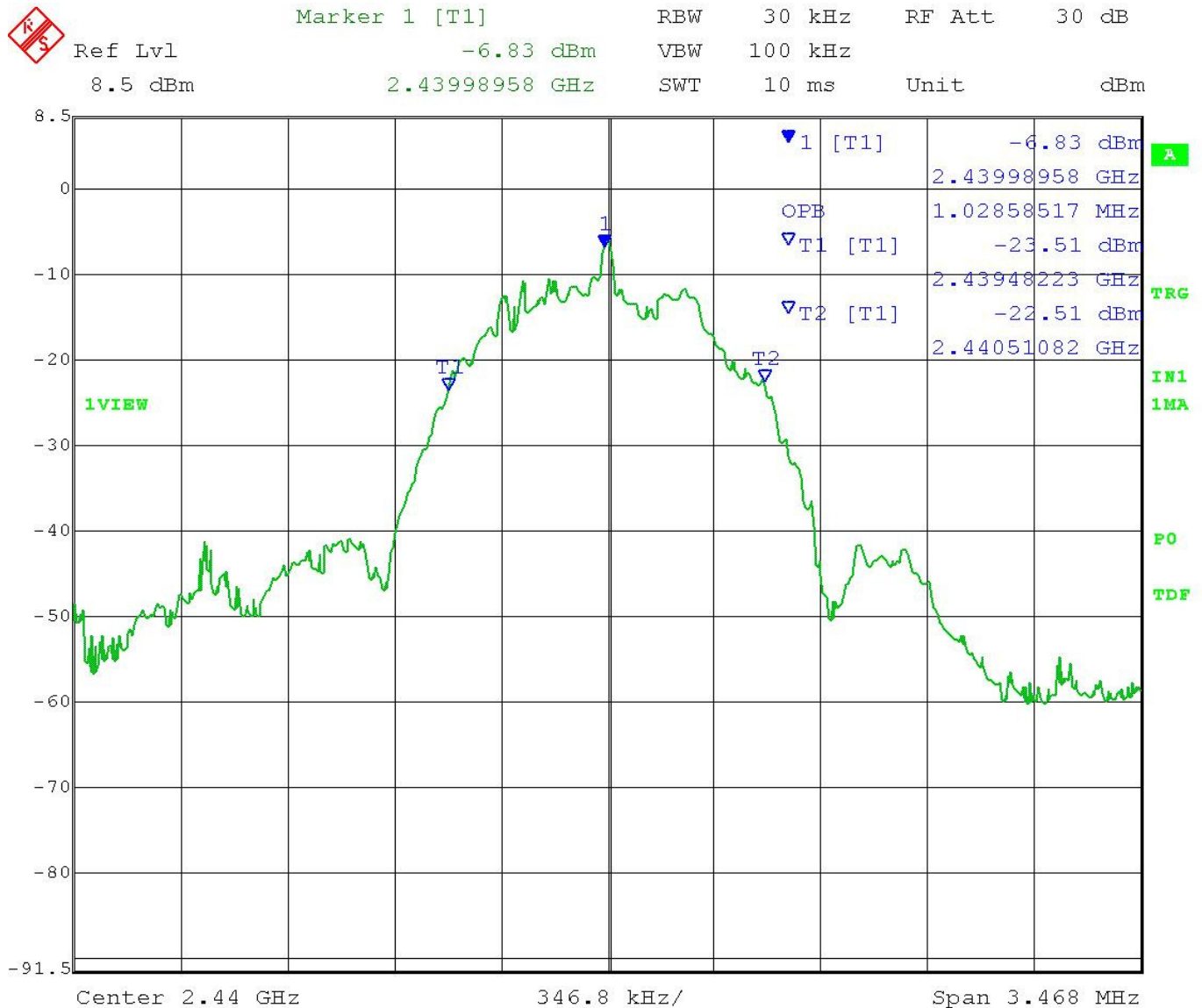
RESULTS: Meets Requirements

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

Test Data: 99% Bandwidth Plot Middle of Band



Date: 29.SEP.2016 11:02:11

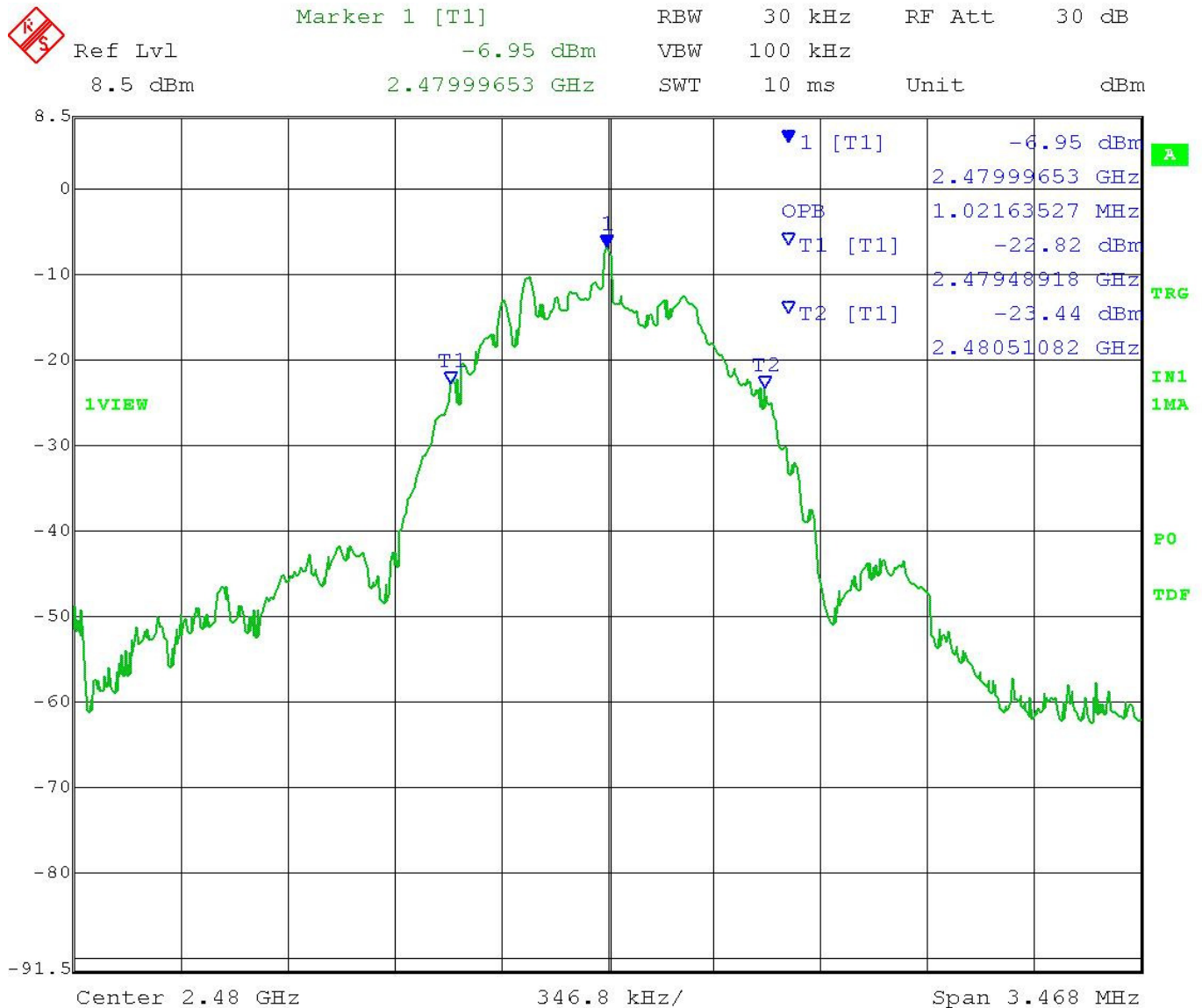
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
FCC ID: BBO29BT2K17
IC: 906A-29BT2K17
Report: 1949BUT16TestReport_Rev1

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OCCUPIED BANDWIDTH

Test Data: 99% Bandwidth Plot High end of Band



Date: 29.SEP.2016 11:03:06

RESULTS: Meets Requirements

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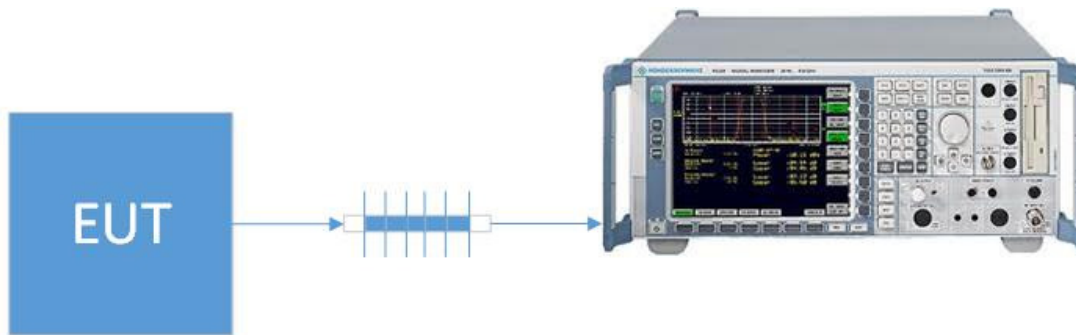
BANDEDGE

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 (non-restricted)
ANSI C63.10 § 6.10.6 Marker Delta Method (restricted band edge)

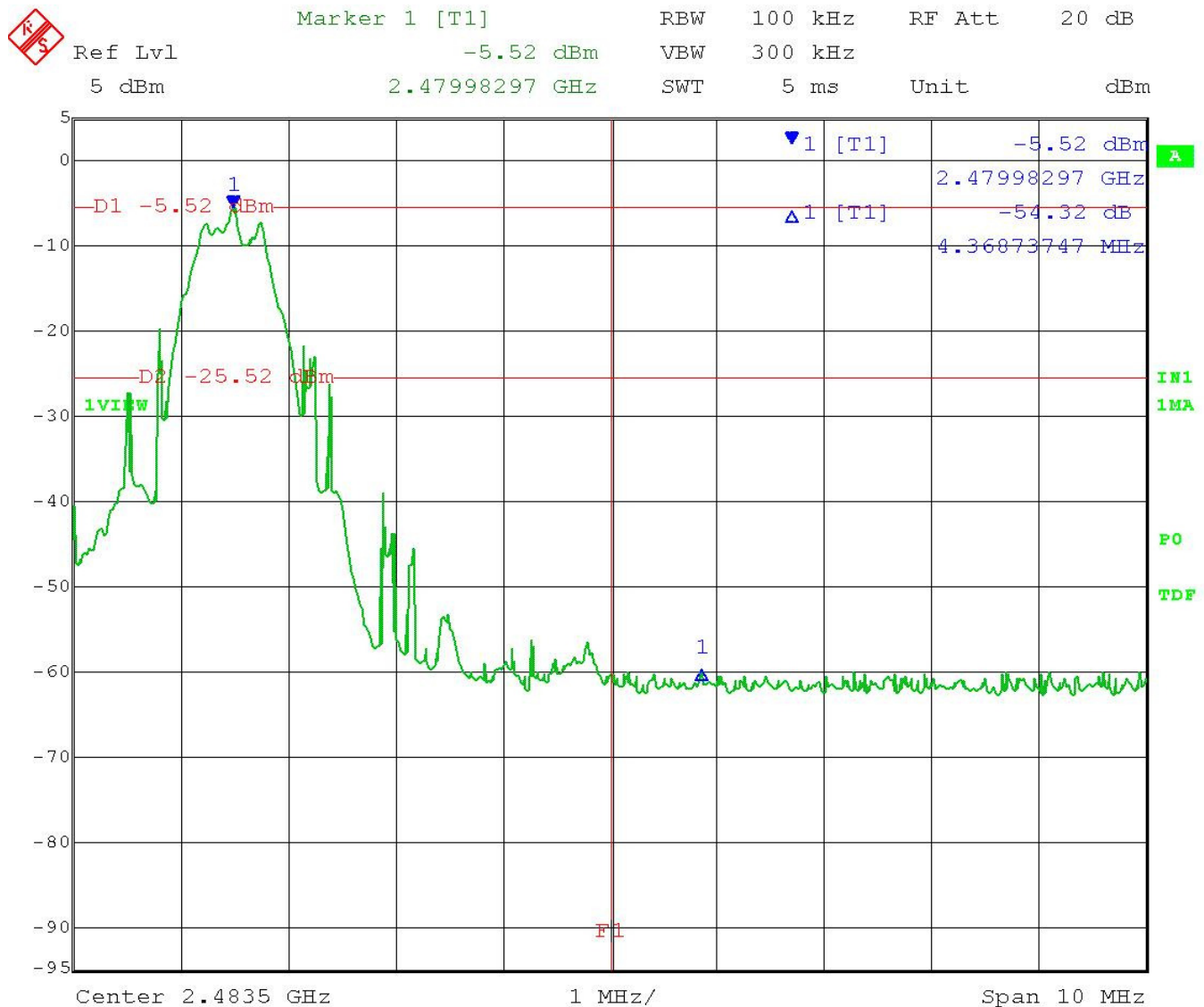
Setup:



BANDEDGE

Test Data: Upper Band Edge Plot

Peak/ Average	Field Strength of Carrier (dBuV/ m)	Ant Polarity (H/ V)	Emission Level Below Carrier (dB)	Field Strength of Emission (dBuV/ m)	Emission Limit (dBuV/ m)	Margin (dB)
Peak	83.1	H	54.3	28.8	74	45.2
Average	80.0	H	54.3	25.7	54	28.3



Date: 29.SEP.2016 13:56:40

RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
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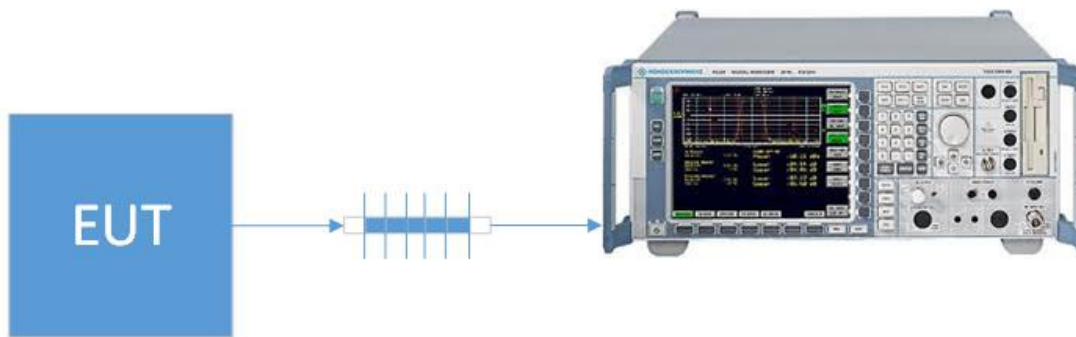
ANTENNA CONDUCTED SPURIOUS EMISSIONS

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

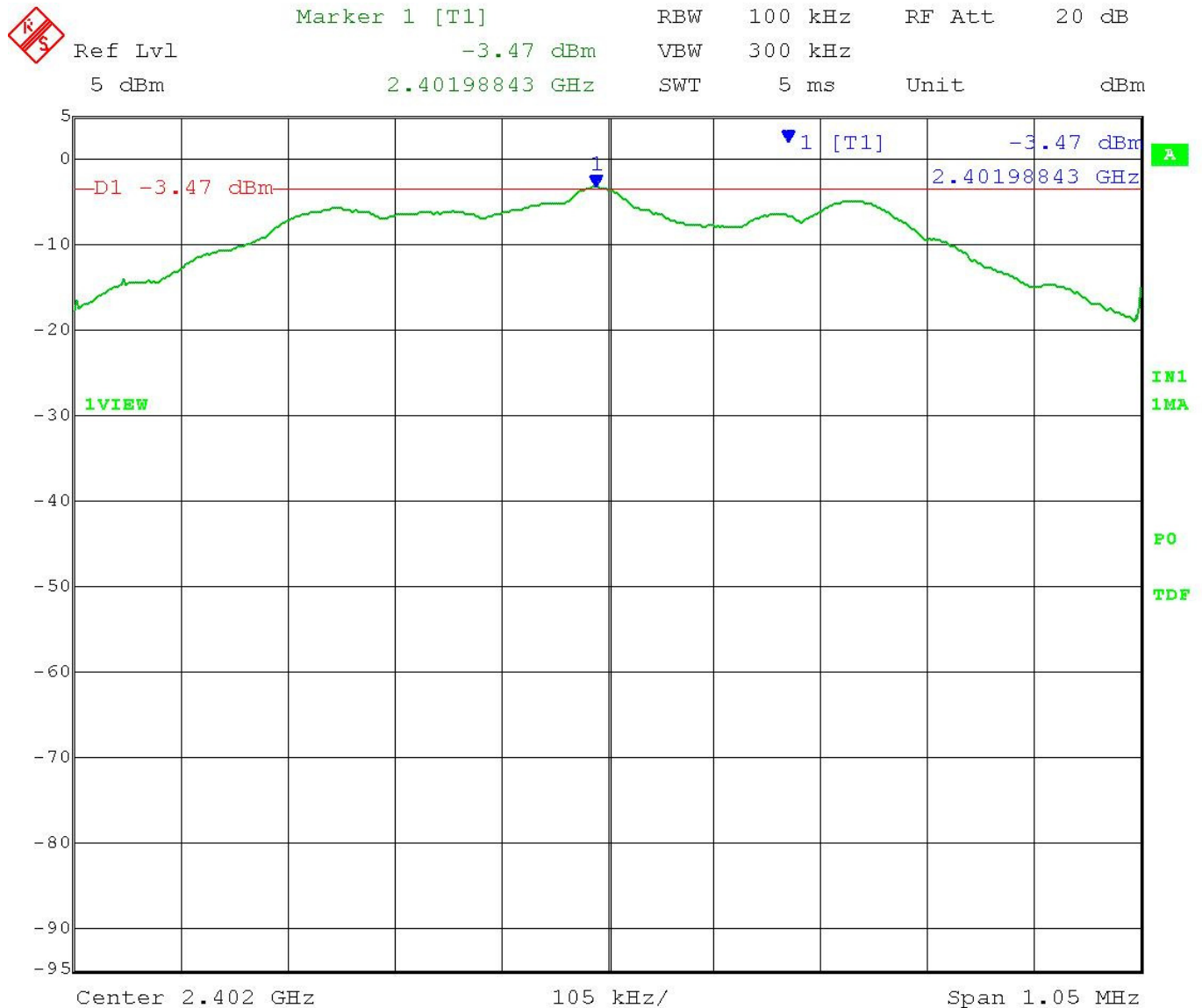
Test Method: ANSI C63.10 § 11.11.1 General Information
ANSI C63.10 § 11.11.2 Reference level measurement
ANSI C63.10 § 11.11.3 Emission level measurement

Setup:



ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: 100 KHz Reference Level Plot



Date: 29.SEP.2016 14:00:15

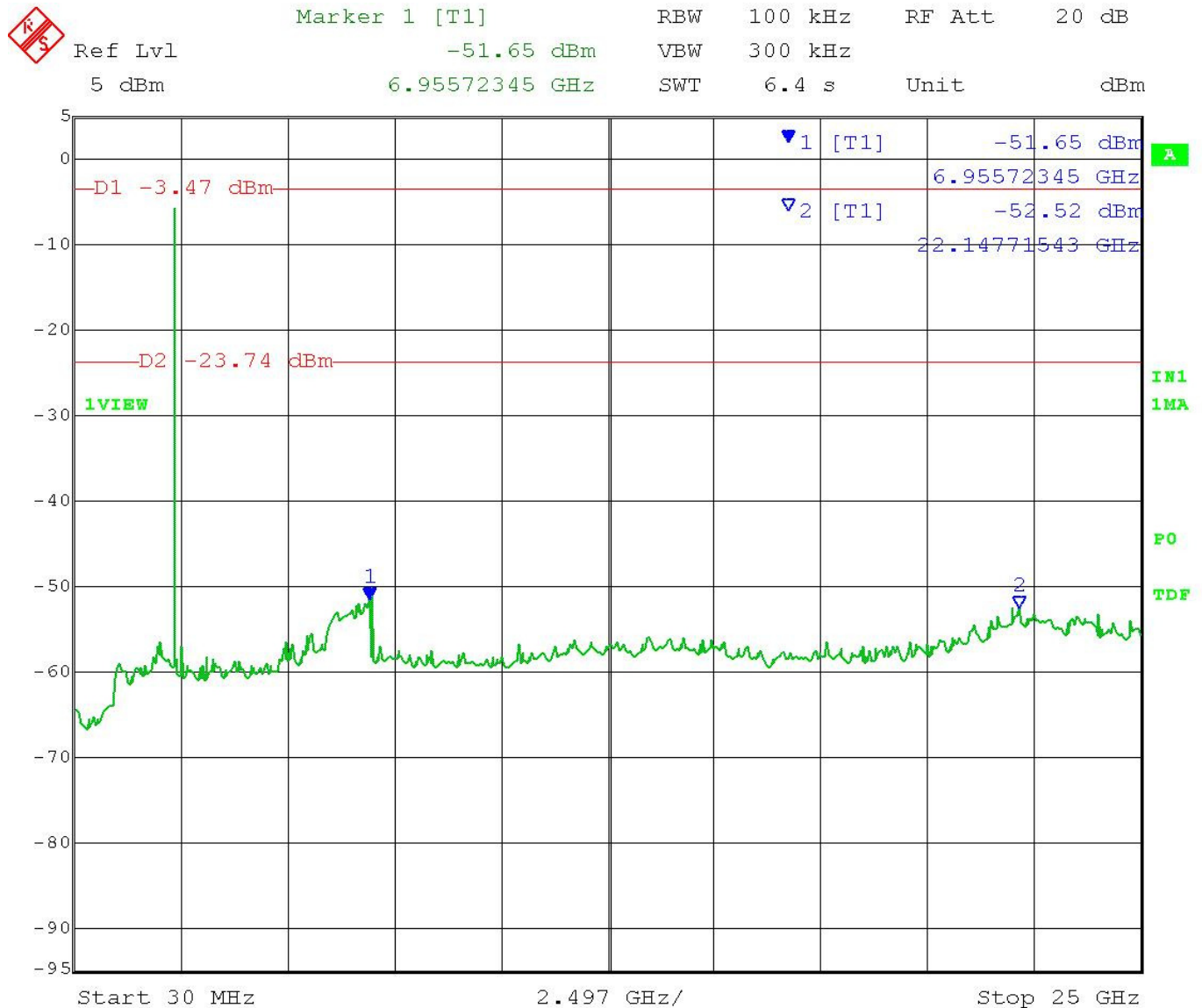
RESULTS: Meets Requirements

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

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



Date: 29.SEP.2016 14:02:41

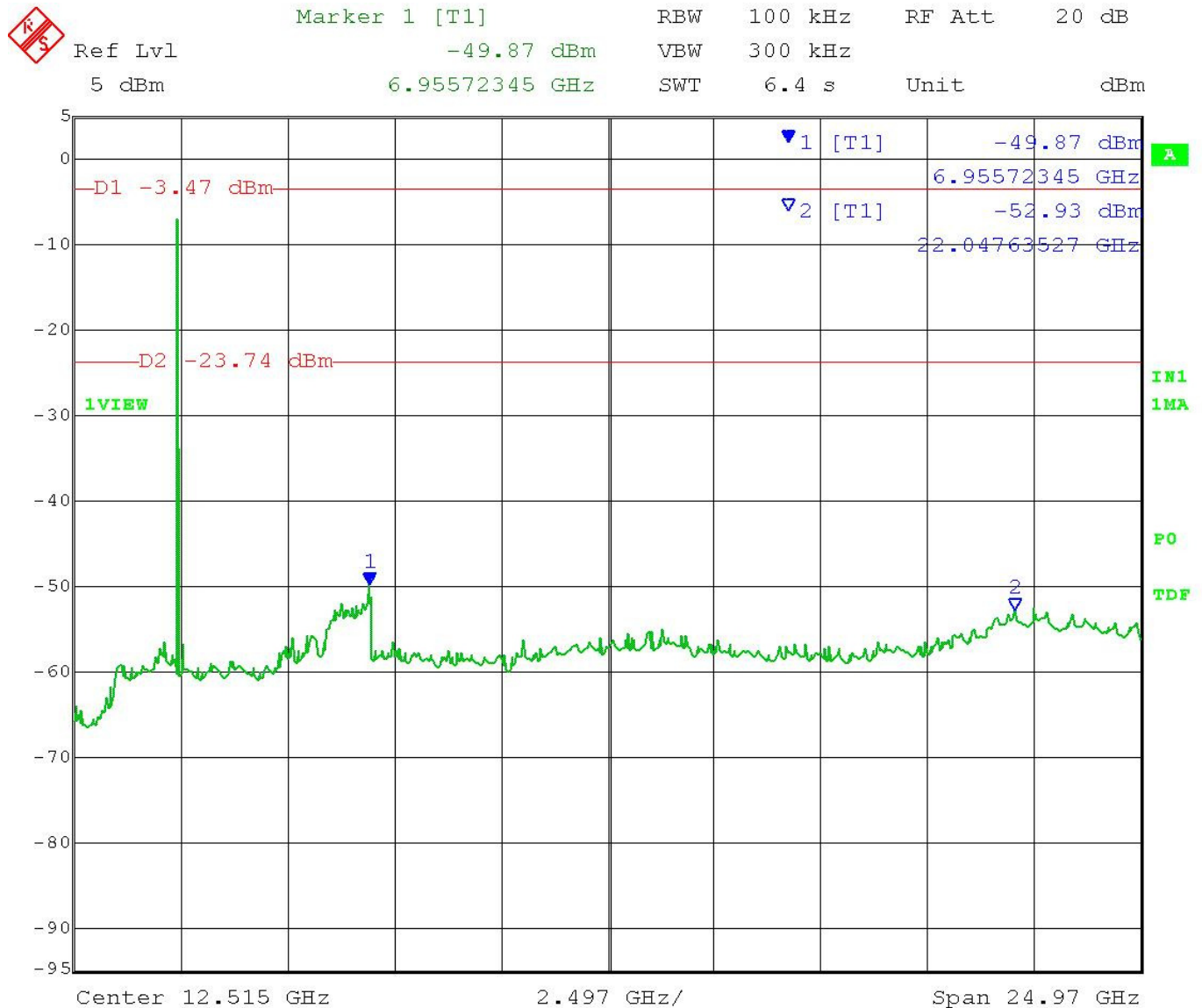
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

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



Date: 29.SEP.2016 14:04:27

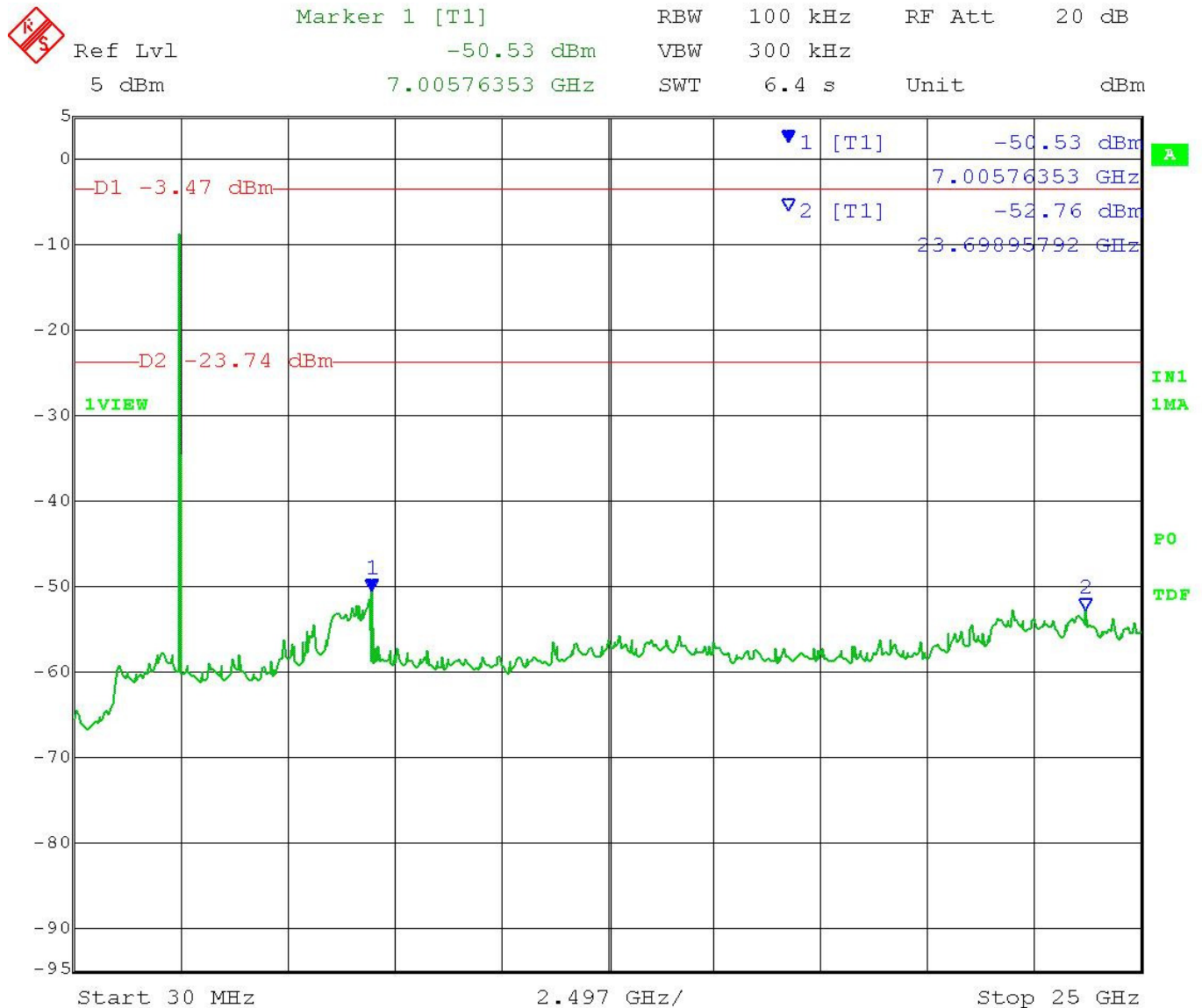
RESULTS: Meets Requirements

Applicant: COBRA ELECTRONICS CORPORATION
 FCC ID: BBO29BT2K17
 IC: 906A-29BT2K17
 Report: 1949BUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

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



Date: 29.SEP.2016 14:06:44

RESULTS: Meets Requirements

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

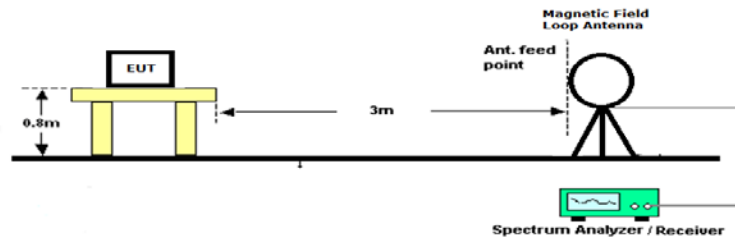
Freq (MHz)	Meter Reading	+ ACF	+ CL = FS
33	20 dB μ V	+ 10.36 dB	+ 0.5 = 30.86 dB μ V/m @ 3m

Notes: Only emissions within 20dB of the limit are reported from 9 KHz to 25 GHz

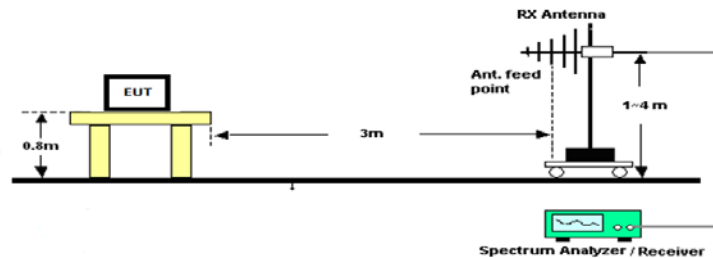
RADIATED SPURIOUS EMISSIONS

Setup:

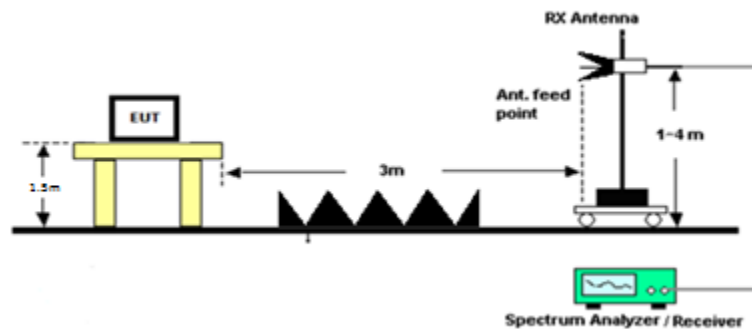
Emissions below 30 MHz



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 spectrum was measured from 9 KHz to 25 GHz, emissions discovered in bands listed in part 15.205 were compared with limit of 15.209 and only emissions found within 20 dB from limit are reported

Test Data: Restricted Band Emissions Field Strength 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)
2,402.0	243.3	PK	17.0	V	1.8	11.5	30.3	15.7
2,402.0	328.3	PK	16.6	H	2.1	13.6	32.3	13.7
2,402.0	2,494.4	AV	0.8	H	5.8	32.7	39.3	14.7
2,402.0	2,494.4	PK	15.5	H	5.8	32.7	54.0	20.0
2,402.0	4,804.0	AV	-6.3	H	8.1	34.0	35.7	18.3
2,402.0	4,804.0	PK	2.3	H	8.1	34.0	44.3	29.7
2,440.0	243.3	PK	17.3	V	1.8	11.5	30.6	15.4
2,440.0	1,586.2	PK	14.6	V	4.6	28.1	47.3	26.7
2,440.0	1,586.2	AV	4.9	V	4.6	28.1	37.6	16.4
2,440.0	2,496.7	AV	0.8	V	5.8	32.7	39.2	14.8
2,440.0	2,496.7	PK	15.8	V	5.8	32.7	54.3	19.7
2,440.0	4,880.0	AV	-9.0	H	8.1	33.9	33.1	20.9
2,440.0	4,880.0	PK	4.2	H	8.1	33.9	46.2	27.8
2,480.0	328.3	PK	15.9	H	2.1	13.6	31.6	14.4
2,480.0	2,498.0	AV	0.8	H	5.8	32.7	39.3	14.7
2,480.0	2,498.0	PK	15.8	H	5.8	32.7	54.3	19.8
2,480.0	4,960.2	AV	-8.7	V	8.2	34.0	33.4	20.6
2,480.0	4,960.2	PK	2.3	V	8.2	34.0	44.4	29.6

Results Meet Requirements

Applicant: COBRA ELECTRONICS CORPORATION
FCC ID: BBO29BT2K17
IC: 906A-29BT2K17
Report: 1949BUT16TestReport_Rev1

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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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