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FCC PART 15.247 & IC RSS-247
2.4 GHz DTS
TEST REPORT FOR BT LE

Applicant	MAYFONK, INC.
Address	408 FARMINGTON DRIVE
	PLANTATION FL 33317 USA
FCC ID	2AAJO20212430
IC	11604A-20212430
Model Number	ROM2017A
Product Description	ATHLETIC WEARABLE
Date Sample Received	11/10/2016
Final Test Date	11/14/2016
Tested By	Cory Leverett
Approved By	Tim Royer

Report Number	Version Number	Description	Issue Date
2273BUT16TestReport_	Rev1	Initial Issue	11/28/2016

**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: Cory Leverett, Project Manager/Testing Technician

Date: 11/22/2016



Reviewed and approved by:

Name and Title: Tim Royer, Project Manager

Date: 11/28/2016

Applicant: MAYFONK, INC.
FCC ID: 2AAJO20212430
IC: 11604A-20212430
Report: 2273BUT16TestReport_Rev1

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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	2AAJO20212430		
IC	11604A-20212430		
Model	ROM2017A		
EUT Description	ATHLETIC WEARABLE		
Modulation Type	Bluetooth LE (GFSK 1 Mbps)		
Operating Frequency	TX: 2402 – 2480 MHz	RX: 2402 – 2480 MHz	
EUT Power Source	<input checked="" type="checkbox"/> 110–120Vac/50– 60Hz (While in charging Cradle)		
	<input type="checkbox"/> DC Power		
	<input checked="" type="checkbox"/> Battery Operated		
Test Item	<input type="checkbox"/> Prototype	<input checked="" type="checkbox"/> Pre-Production	<input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed	<input type="checkbox"/> Mobile	<input checked="" type="checkbox"/> 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
NA					

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)(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 (ERP)	Pass
			Antenna Gain (EIRP)	Pass
15.247(d)	RSS-247 § 5.5	Unwanted Emissions	Bandedge	Pass
			Radiated Spurious	Pass

Notes:

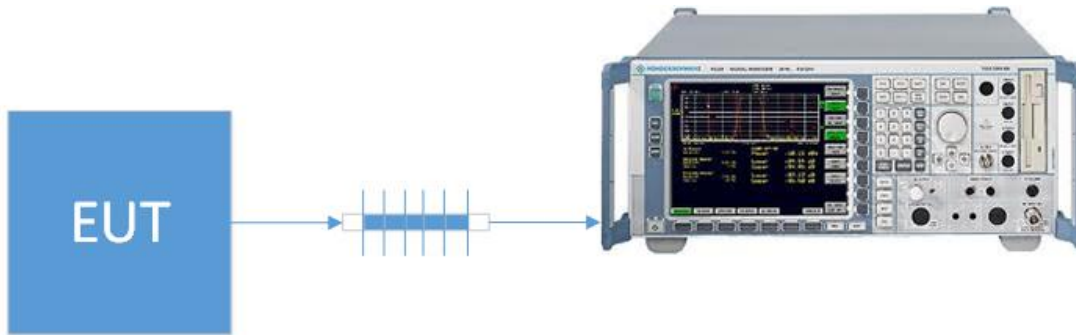
DTS BANDWIDTH

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	739.5	≥ 500	239.5
2442	733.5	≥ 500	233.5
2480	733.5	≥ 500	233.5

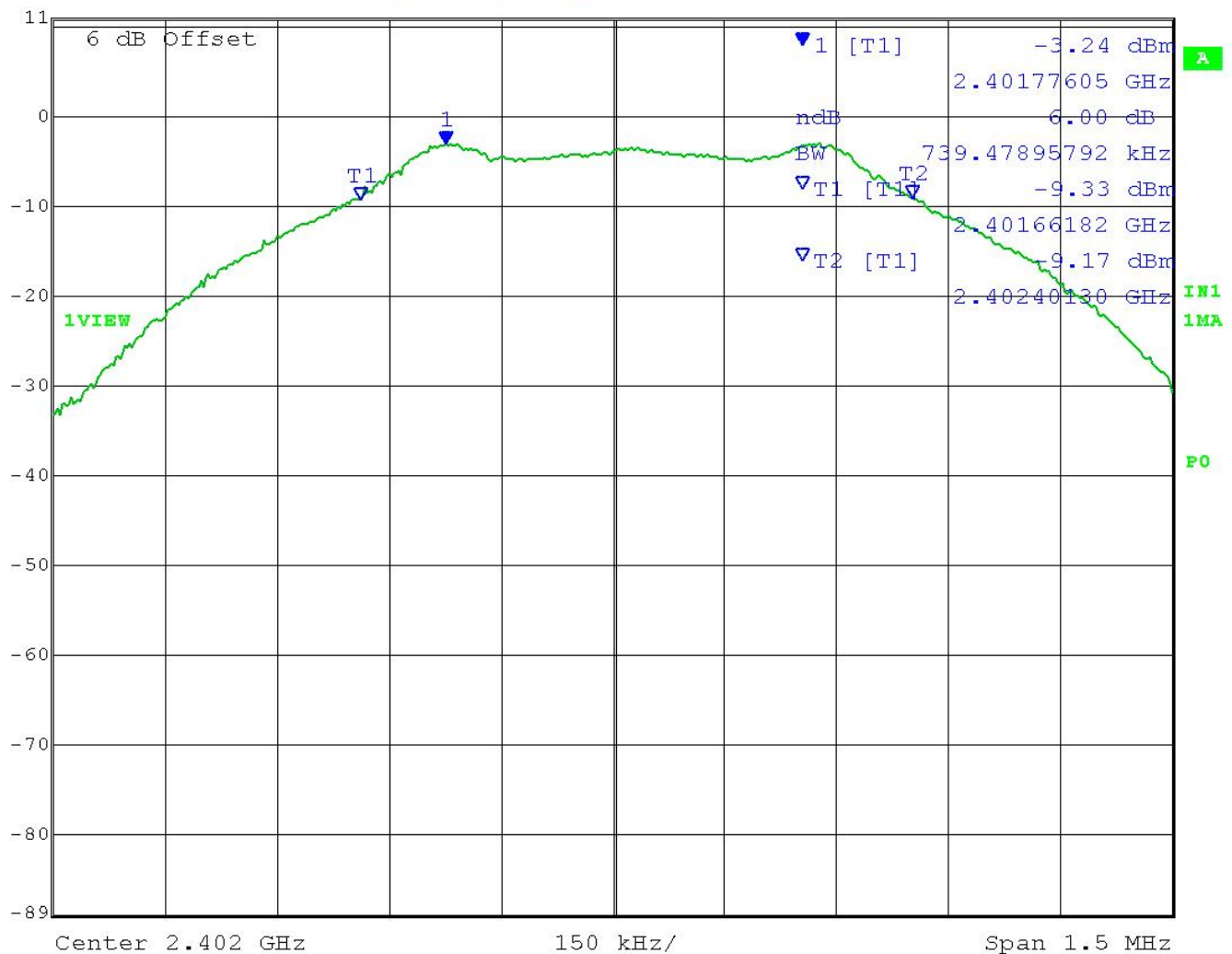
RESULTS: Meets Requirements

DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot Low End of Band



Ref Lvl	Marker 1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB
11 dBm	ndB 6.00 dB	VBW	300 kHz		
	BW 739.47895792 kHz	SWT	5 ms	Unit	dBm



Date: 14.NOV.2016 16:14:06


RESULTS: Meets Requirements

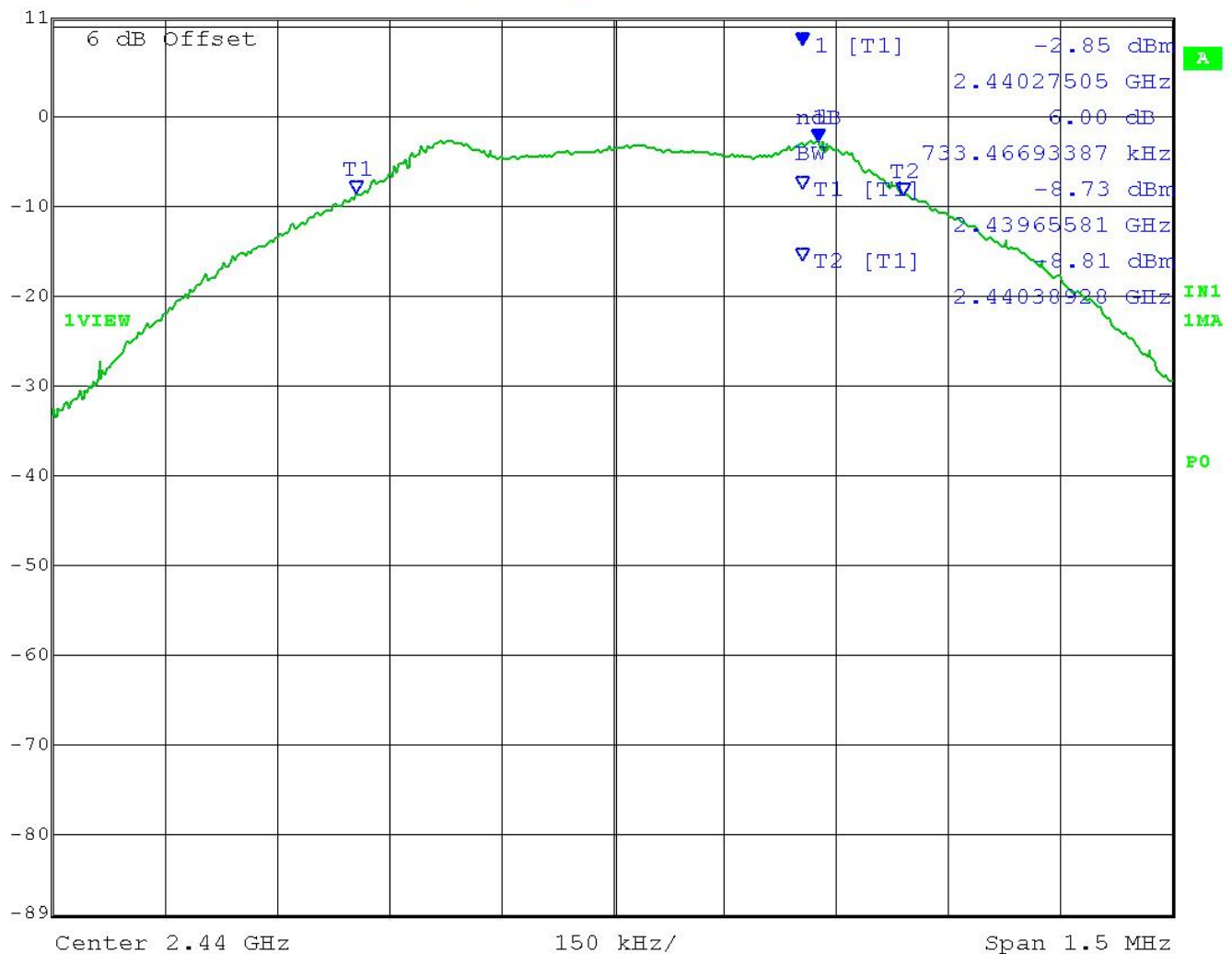
Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
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DTS BANDWIDTH

Test Data: 6dB Bandwidth Plot Middle of Band


 Ref Lvl 11 dBm
 Marker 1 [T1 ndB] ndB 6.00 dB
 BW 733.46693387 kHz
 RBW 100 kHz
 VBW 300 kHz
 RF Att 20 dB
 SWT 5 ms
 Unit dBm



Date: 14.NOV.2016 16:14:58

RESULTS: Meets Requirements

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Applicant: MAYFONK, INC.
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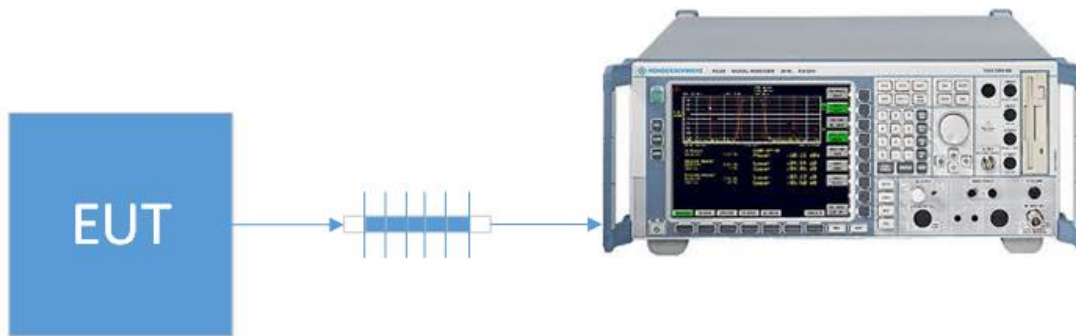
PEAK POWER OUTPUT

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	-2.88	0.00052	1.00	0.99948
2442	-2.51	0.00056	1.00	0.99944
2480	-1.80	0.00066	1.00	0.99934

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	-2.88	0.00085	4.00	3.99915
2442	-2.51	0.00092	4.00	3.99908
2480	-1.80	0.00108	4.00	3.99892

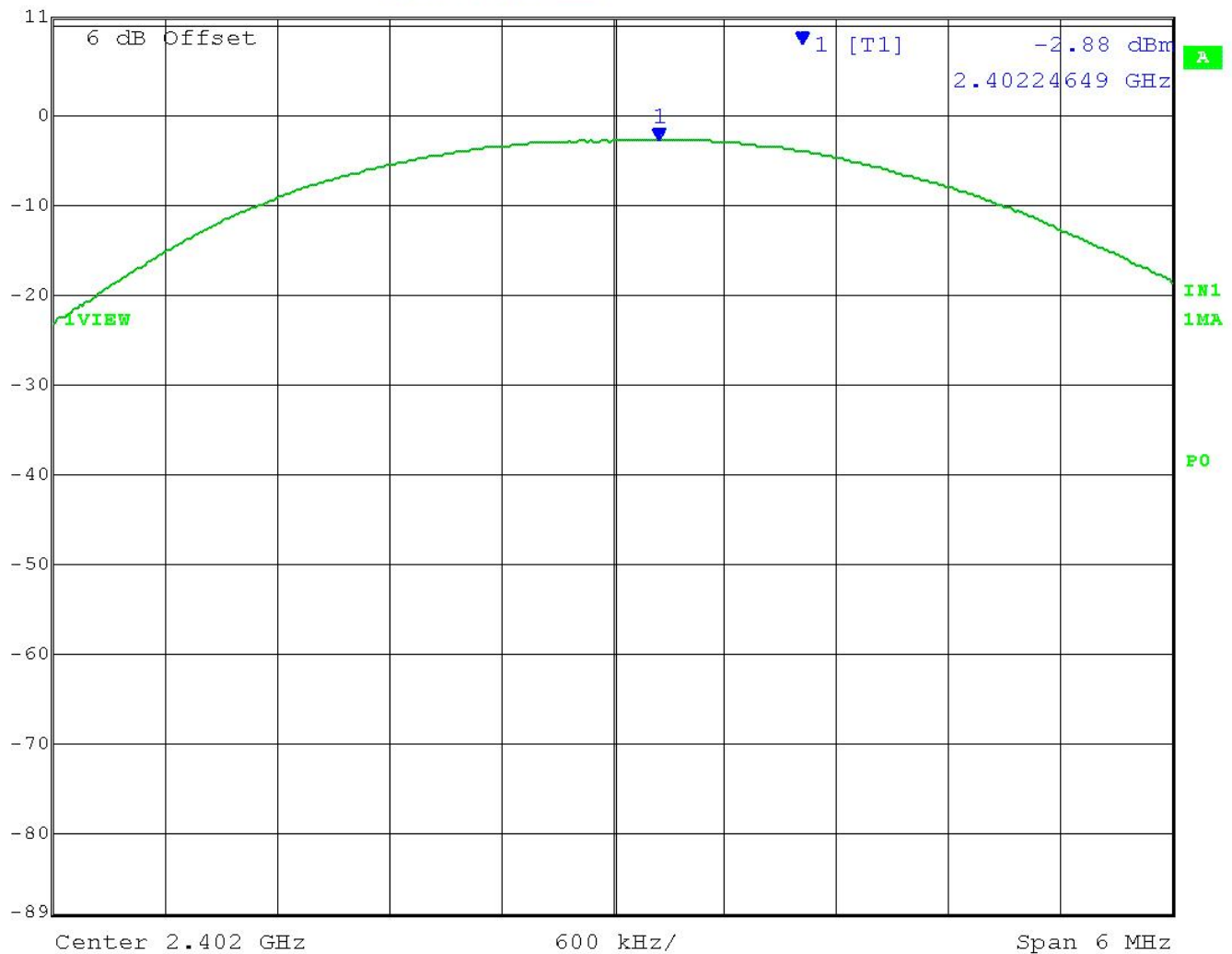
RESULTS: Meets Requirements

PEAK POWER OUTPUT

Test Data: Peak Power Output Plot Low End of Band



Marker 1 [T1] RBW 2 MHz RF Att 20 dB
 Ref Lvl -2.88 dBm VBW 10 MHz
 11 dBm 2.40224649 GHz SWT 5 ms Unit dBm



Date: 14.NOV.2016 16:23:40

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

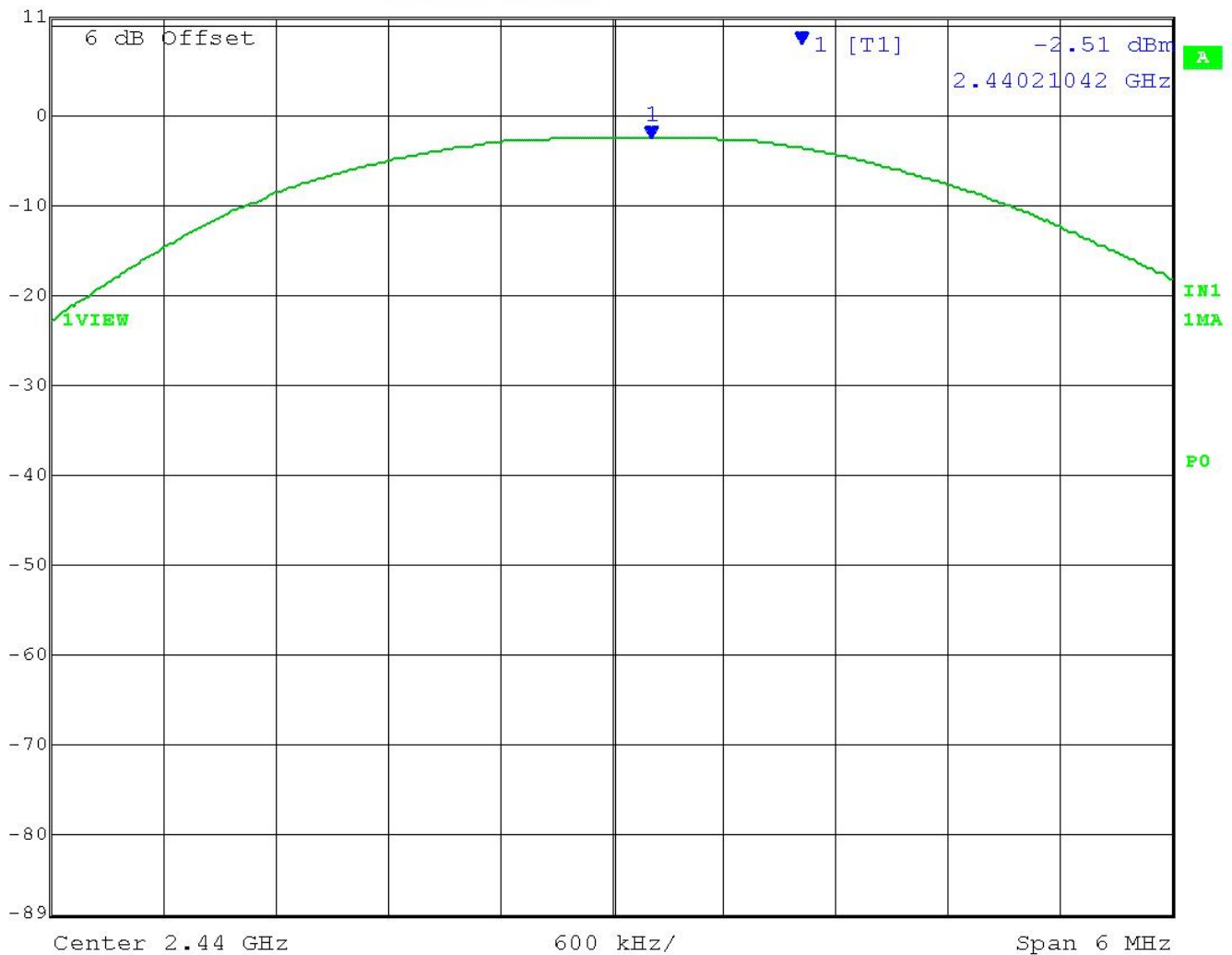
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PEAK POWER OUTPUT

Test Data: Peak Power Output Plot Middle of Band



Marker 1 [T1] RBW 2 MHz RF Att 20 dB
 Ref Lvl -2.51 dBm VBW 10 MHz
 11 dBm 2.44021042 GHz SWT 5 ms Unit dBm



Date: 14.NOV.2016 16:22:34

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

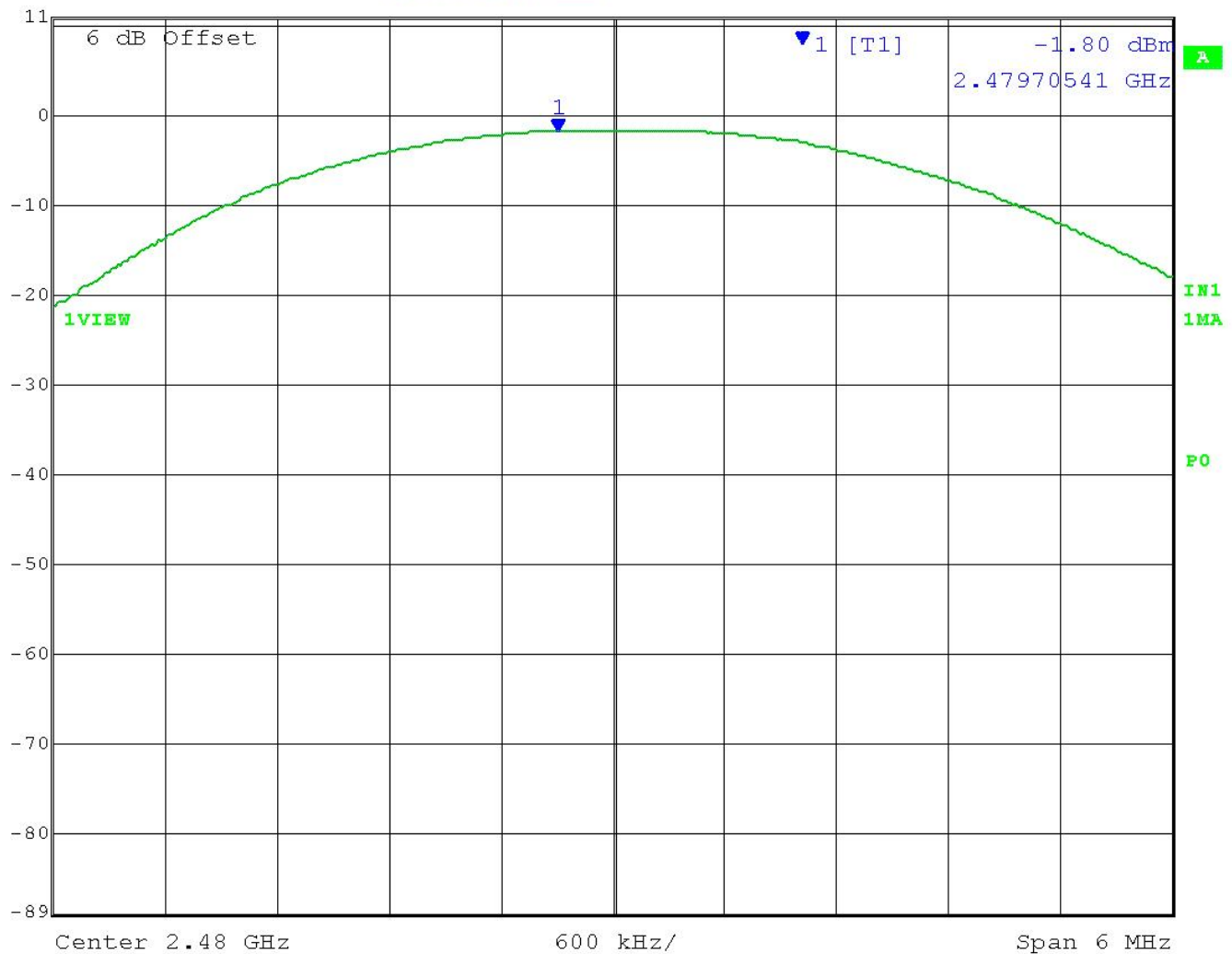
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PEAK POWER OUTPUT

Test Data: Peak Power Output High End of Band



Ref Lvl	Marker 1 [T1]	RBW	2 MHz	RF Att	20 dB
11 dBm	-1.80 dBm	VBW	10 MHz		
	2.47970541 GHz	SWT	5 ms	Unit	dBm



Date: 14.NOV.2016 16:23:02

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

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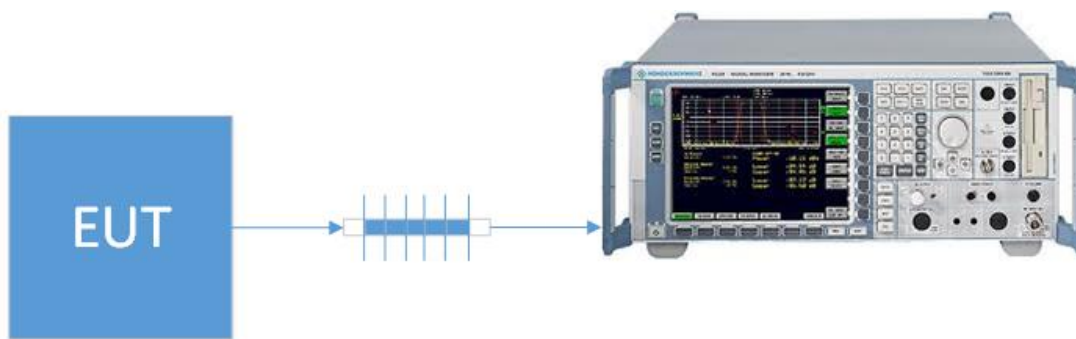
POWER SPECTRAL DENSITY

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:



Test Data: Power Spectral Density Measurement Table

Peak Conducted Power Spectral Density			
Tuned Frequency (MHz)	Level (dBm/3KHz)	Limit (dBm/3KHz)	Margin (dB)
2402	-15.00	8.00	23.00
2442	-14.51	8.00	22.51
2480	-13.70	8.00	21.70

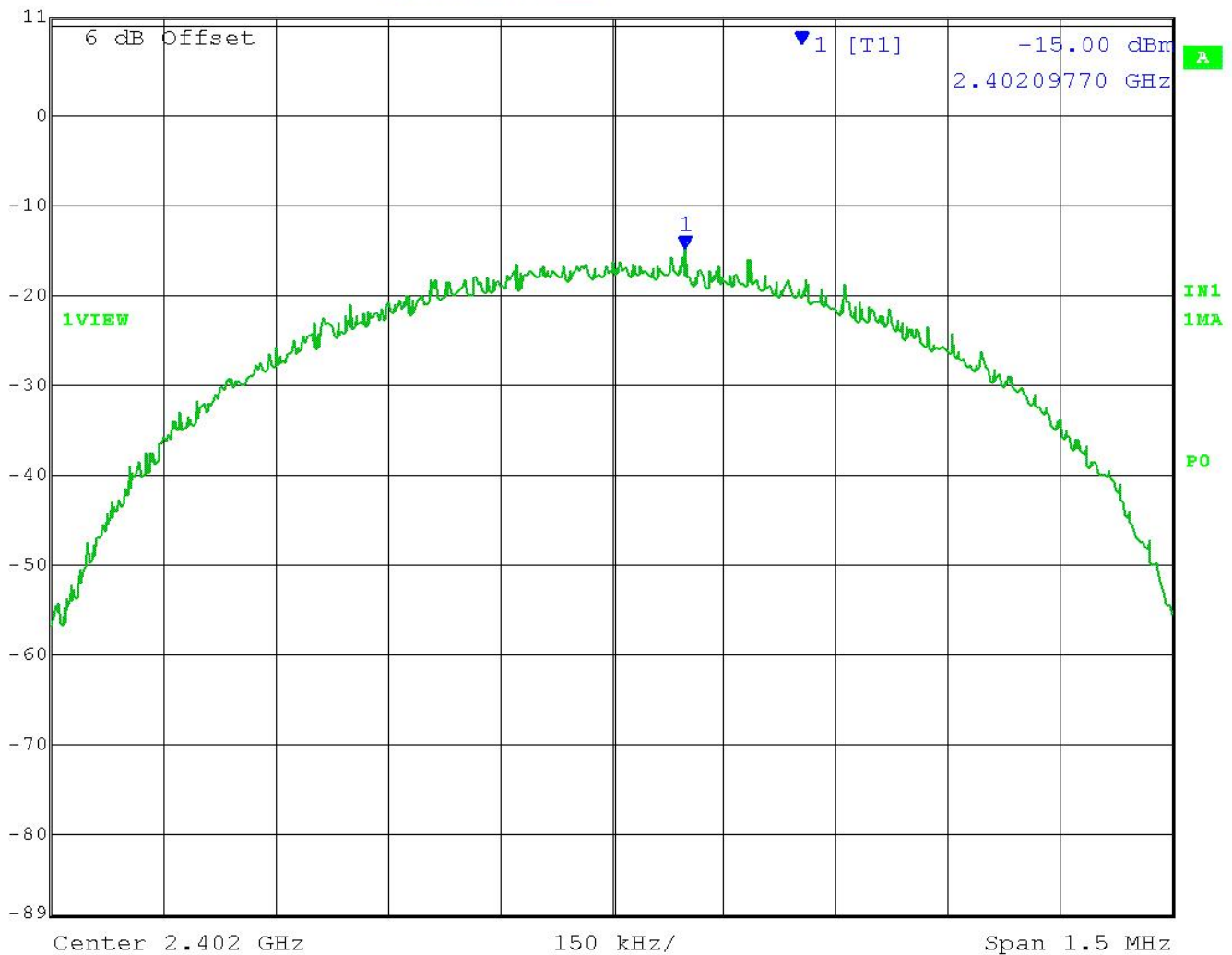
RESULTS: Meets Requirements

POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot Low End of Band



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
 Ref Lvl -15.00 dBm VBW 10 kHz
 11 dBm 2.40209770 GHz SWT 420 ms Unit dBm



Date: 14.NOV.2016 16:27:02

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

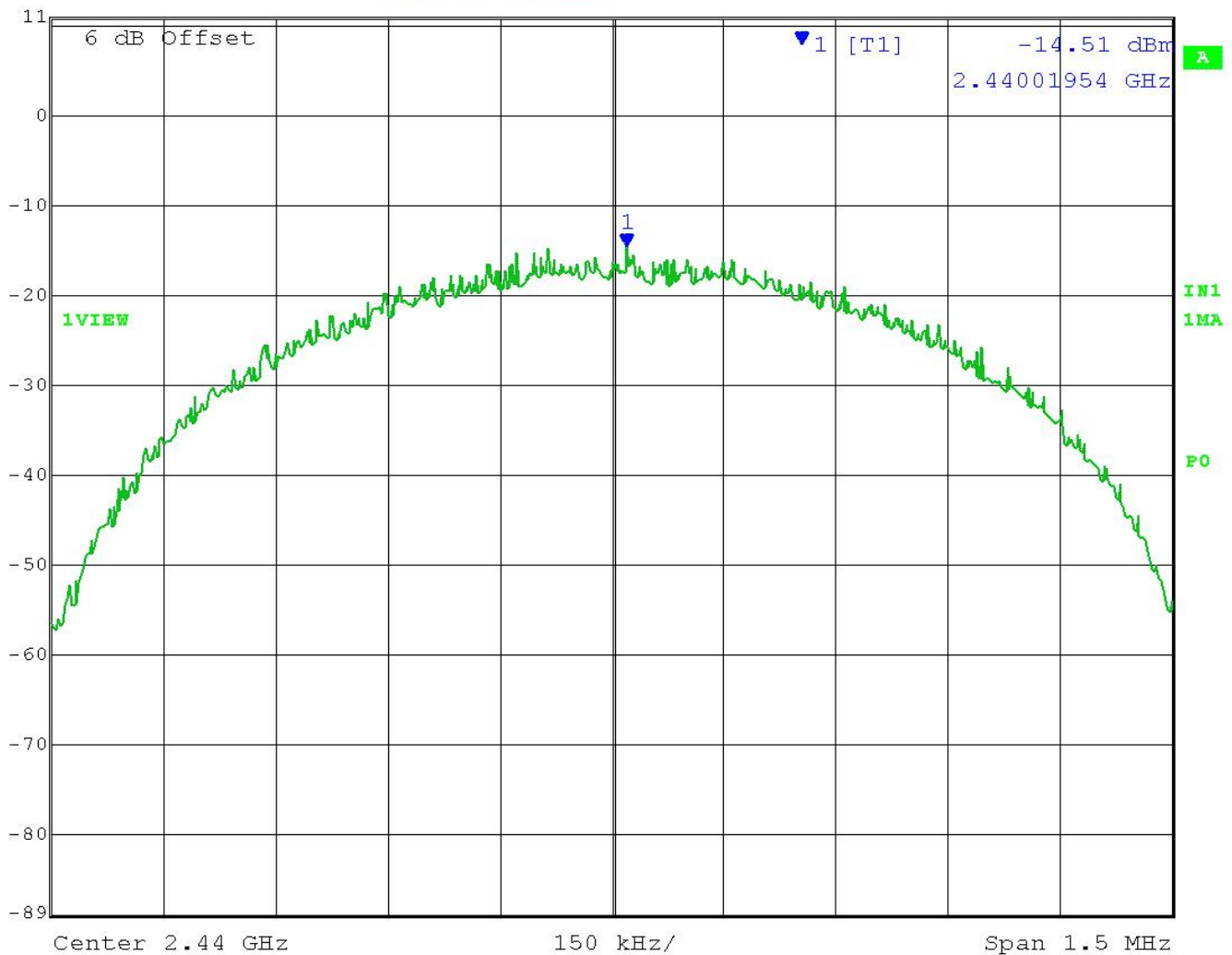
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POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot Middle of Band



Ref Lvl	Marker 1 [T1]	RBW	3 kHz	RF Att	20 dB
11 dBm	-14.51 dBm	VBW	10 kHz		
	2.44001954 GHz	SWT	420 ms	Unit	dBm



Date: 14.NOV.2016 16:27:44

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

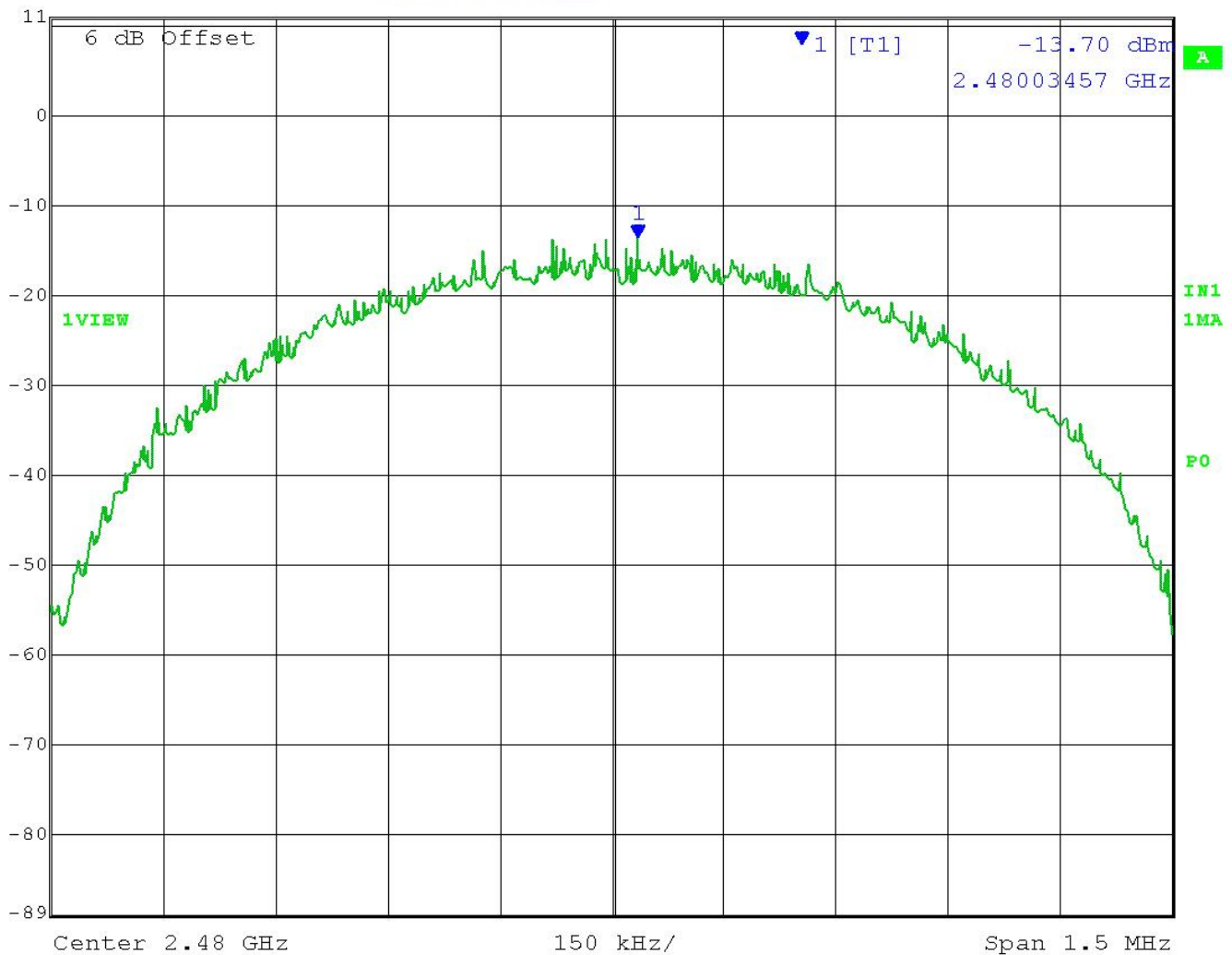
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POWER SPECTRAL DENSITY

Test Data: Power Spectral Density Plot High End of Band



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
 Ref Lvl -13.70 dBm VBW 10 kHz
 11 dBm 2.48003457 GHz SWT 420 ms Unit dBm



Date: 14.NOV.2016 16:28:15

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

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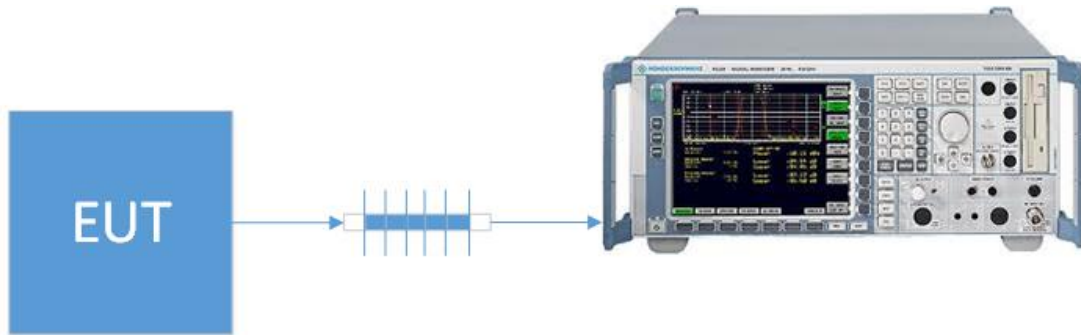
OCCUPIED BANDWIDTH

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: Occupied Bandwidth Measurement Table

Tuned Frequency (MHz)	99% BW (MHz)
2402	1.05
2442	1.05
2480	1.05

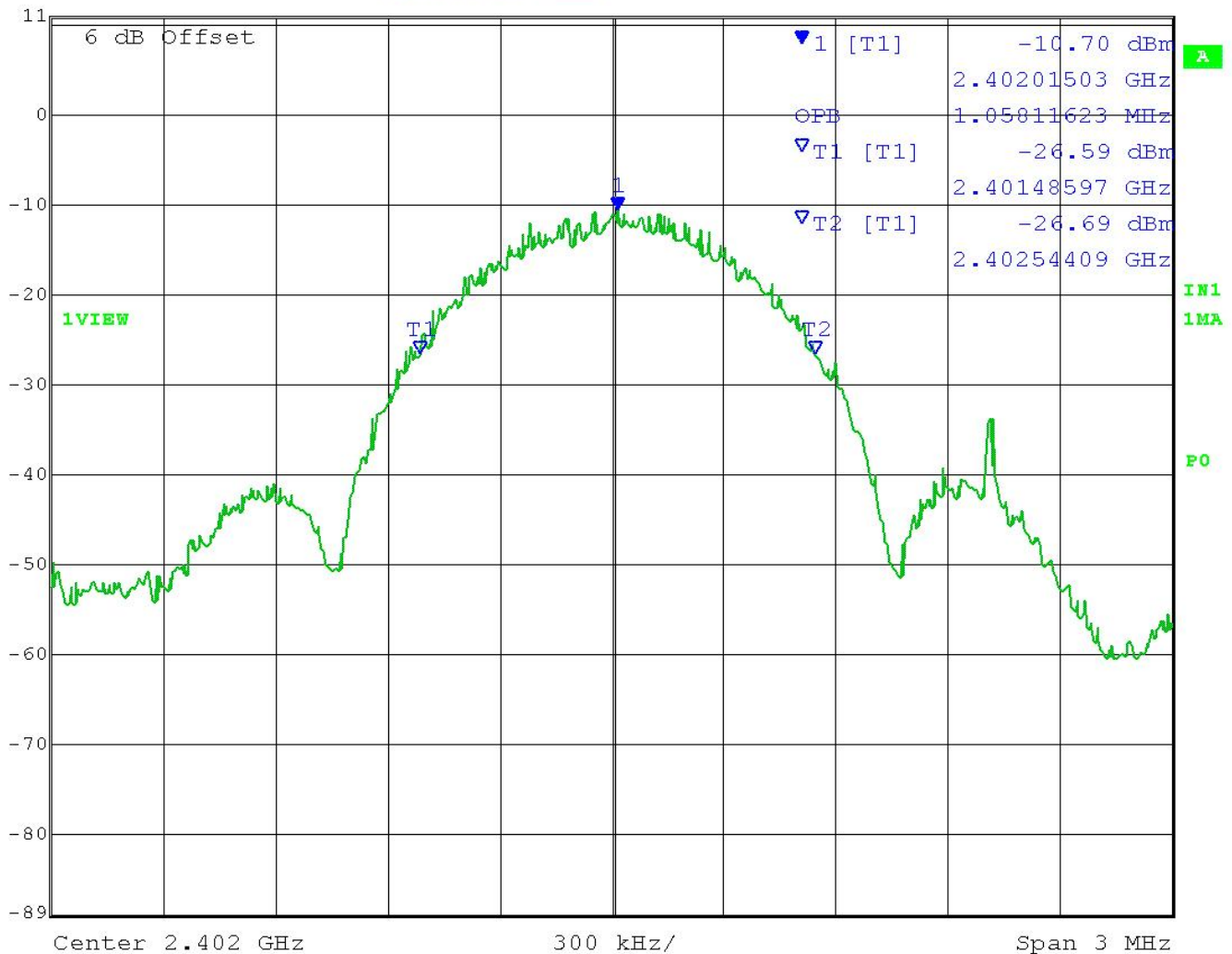
RESULTS: Meets Requirements

OCCUPIED BANDWIDTH

Test Data: 99% Bandwidth Plot Low End of Band



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
11 dBm	-10.70 dBm	VBW	30 kHz		
	2.40201503 GHz	SWT	76 ms	Unit	dBm



Date: 14.NOV.2016 16:20:05

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

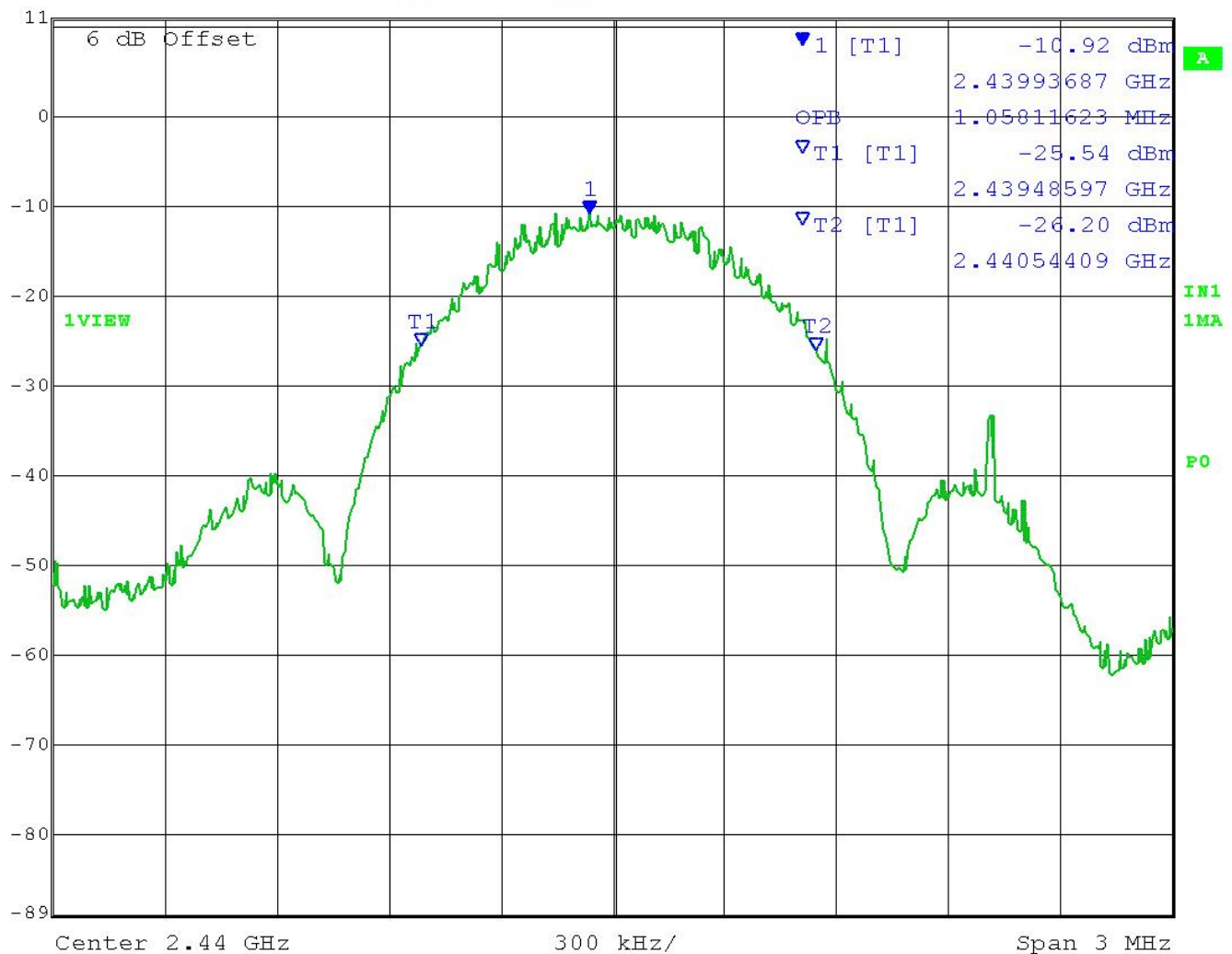
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OCCUPIED BANDWIDTH

Test Data: 99% Bandwidth Plot Middle of Band



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
11 dBm	-10.92 dBm	VBW	30 kHz		
	2.43993687 GHz	SWT	76 ms	Unit	dBm



Date: 14.NOV.2016 16:20:42

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

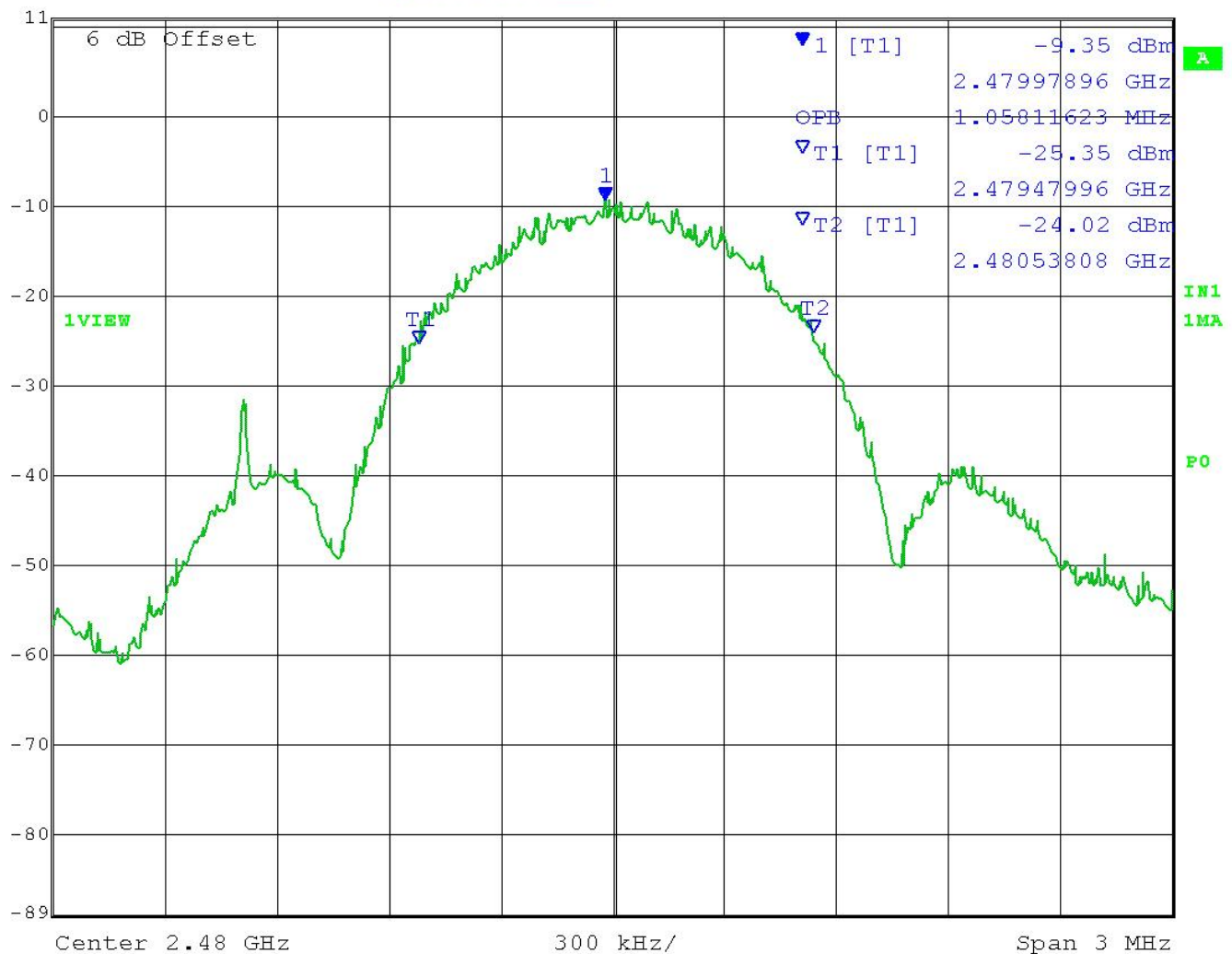
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OCCUPIED BANDWIDTH

Test Data: 99% Bandwidth Plot High end of Band



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
11 dBm	-9.35 dBm	VBW	30 kHz		
	2.47997896 GHz	SWT	76 ms	Unit	dBm



Date: 14.NOV.2016 16:18:34

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

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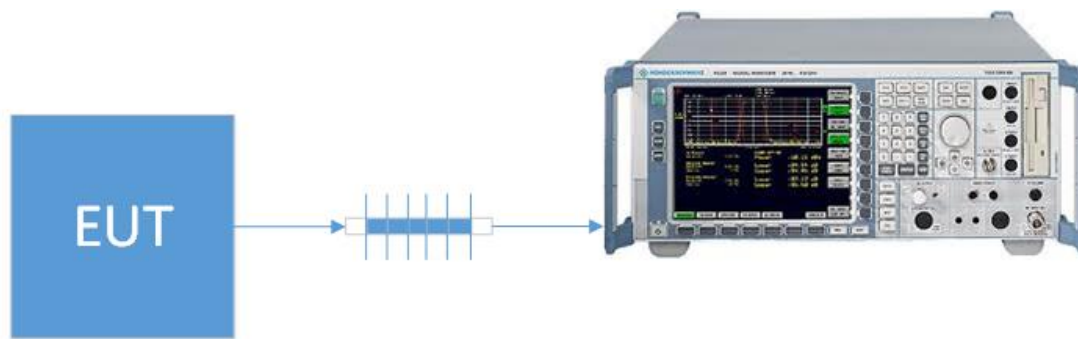
BANDEDGE

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

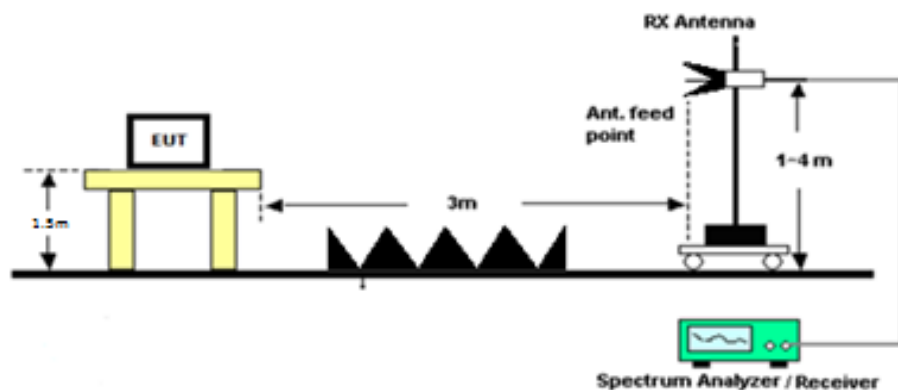
Requirements: Emissions must be at least 20dB down from the highest emission level Within the authorized band as measured with a 100 kHz RBW. Emissions found in restricted bands the levels must comply with the general limits found in FCC part 15.209

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)
ANSI C63.4 § Annex D Validation of radiated emissions standard test sites
ANSI C63.10 § 6.3 Common requirements radiated emissions
ANSI C63.10 § 6.6 Emissions above 1 GHz

Setup:



Conducted Measurement



Radiated Measurement

BANDEDGE

Notes : * Indicates the field strength of the highest fundamental channel, which is used for the adjacent restricted band marker delta measurement.

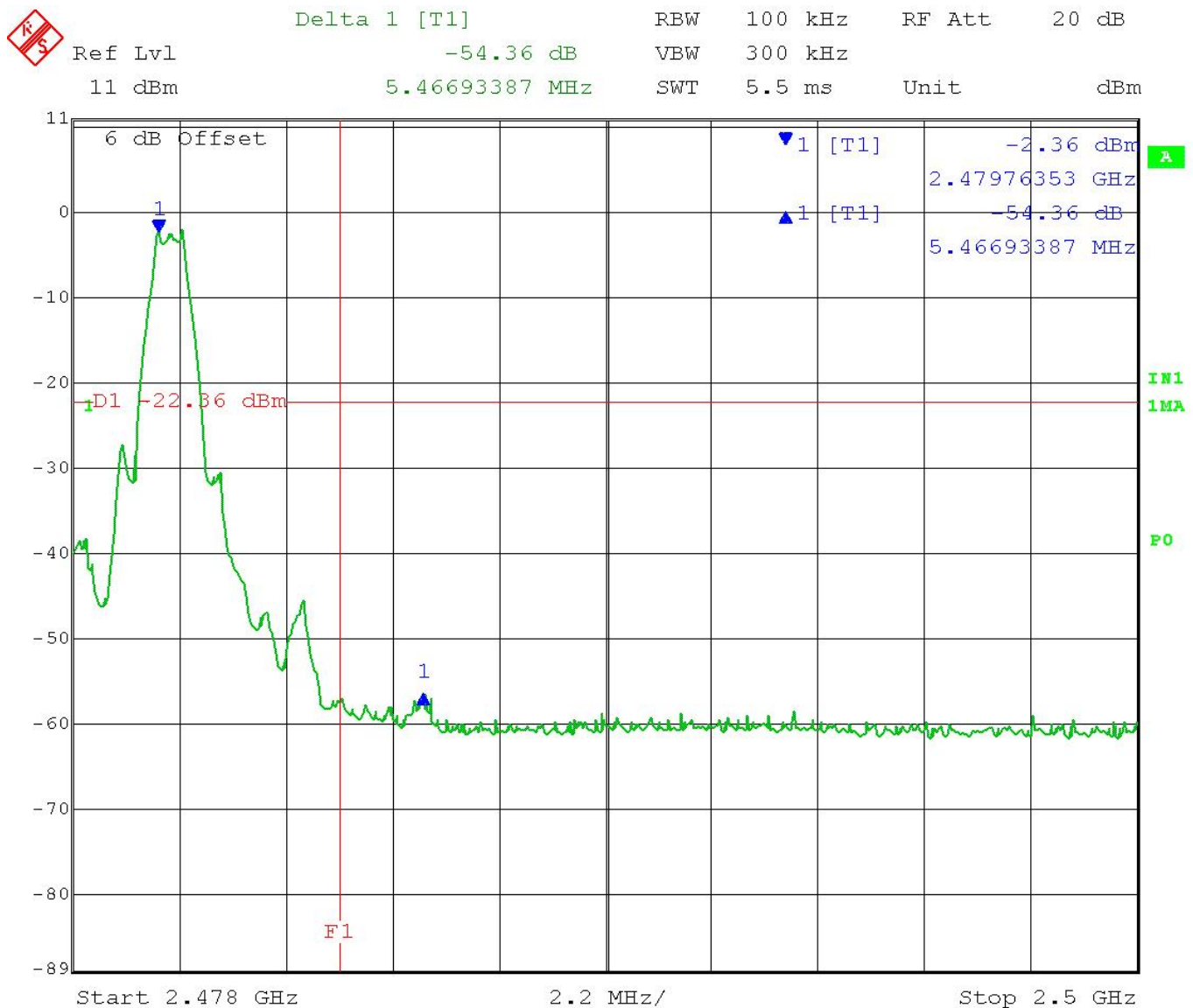
Test Data: Radiated Measurement Table

Tuned Freq MHz	Emission Freq MHz	Detector Type PK/AV	Meter Reading dBu V	Antenna Polarity	Coax Loss dB	Corr Factor dB/M	Field Strength dBu V/M	Limit dBu V/M	Margin dB
2402.0	2386.3	PK	20.6	H	5.7	32.3	58.6	74.0	15.4
2402.0	2386.3	AV	5.8	H	5.7	32.3	43.8	54.0	10.2
2480.0	2480.0	PK	48.1	H	5.8	32.6	86.6	na*	-
2480.0	2480.0	AV	42.6	H	5.8	32.6	81.1	na*	-
2480.0	2486.8	PK	5.5	H	5.8	32.7	43.9	74.0	30.1
2480.0	2486.8	AV	-8.4	H	5.8	32.7	30.0	54.0	24.0

BANDEDGE

Test Data: Conducted Upper Band Edge Plot

Tuned Freq MHz	Detector Type PK/AV	Fund FS dBu V/M	Emission Freq MHz	Meter Reading dBc	Field Strength dBu V/M	Limit dBu V/M	Margin dB
2480.0	AV	81.1	2485.2	54.4	26.7	54.0	27.3
2480.0	PK	86.6	2485.2	54.4	32.2	74.0	41.8



Date: 14.NOV.2016 16:31:02


RESULTS: Meets Requirements

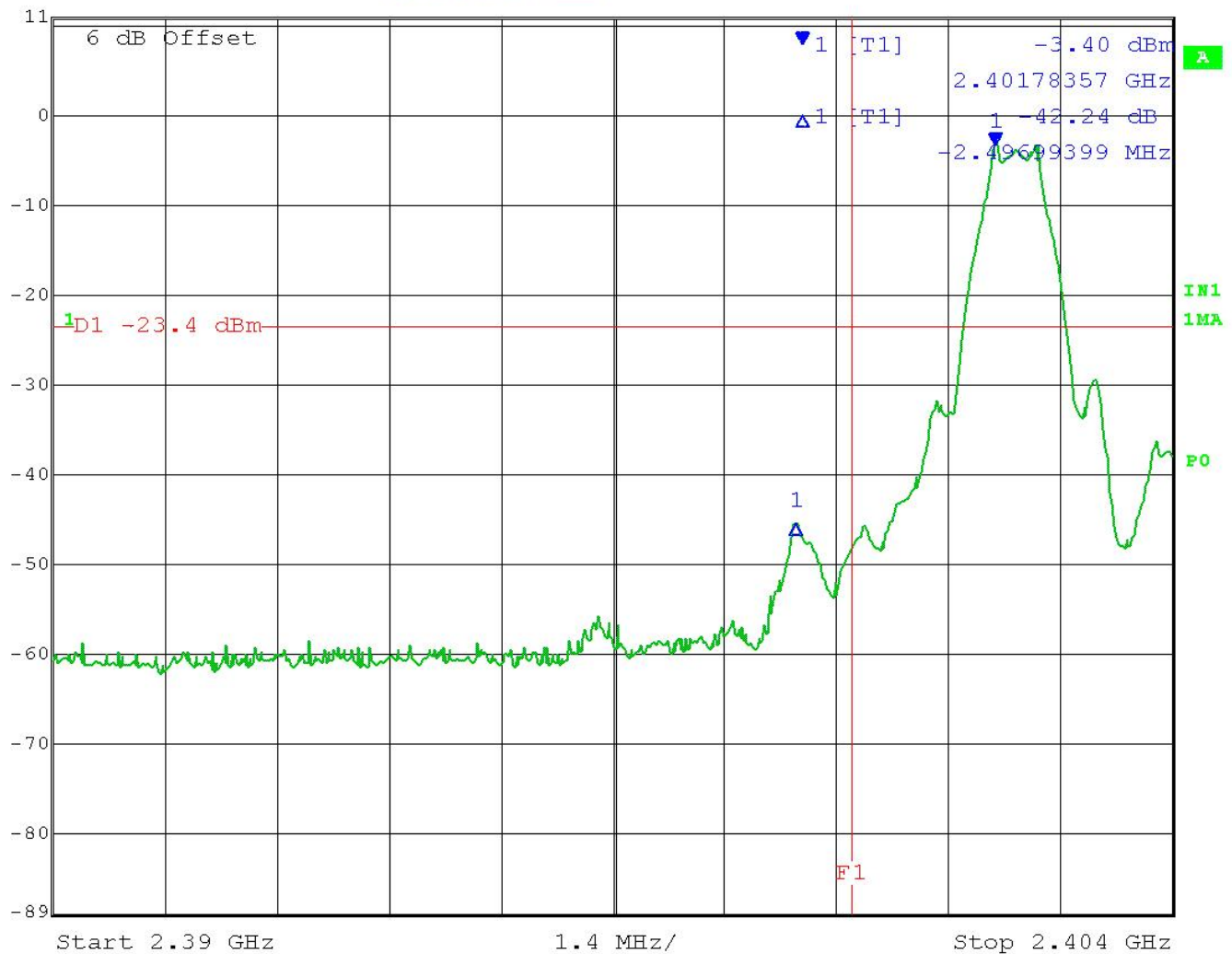
Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
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BANDEDGE

Test Data: Conducted Lower Band Edge Plot


 Ref Lvl 11 dBm
 Marker 1 [T1] -3.40 dBm
 2.40178357 GHz
 RBW 100 kHz
 VBW 300 kHz
 SWT 5 ms
 RF Att 20 dB
 Unit dBm



Date: 14.NOV.2016 16:33:03

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
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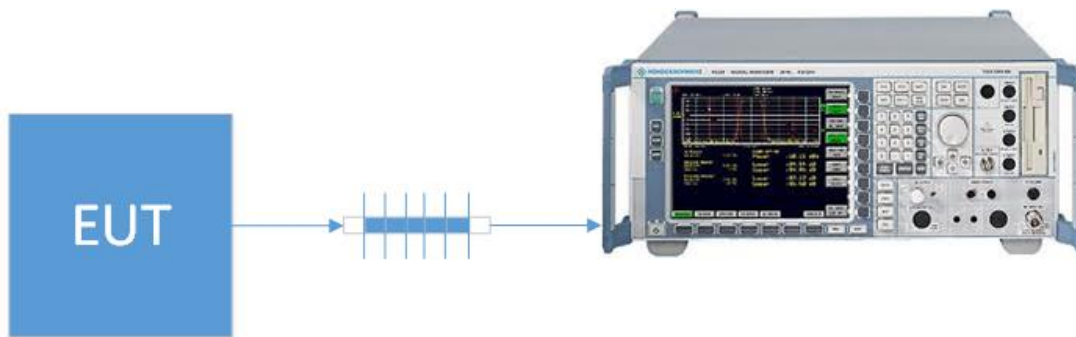
ANTENNA CONDUCTED SPURIOUS EMISSIONS

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

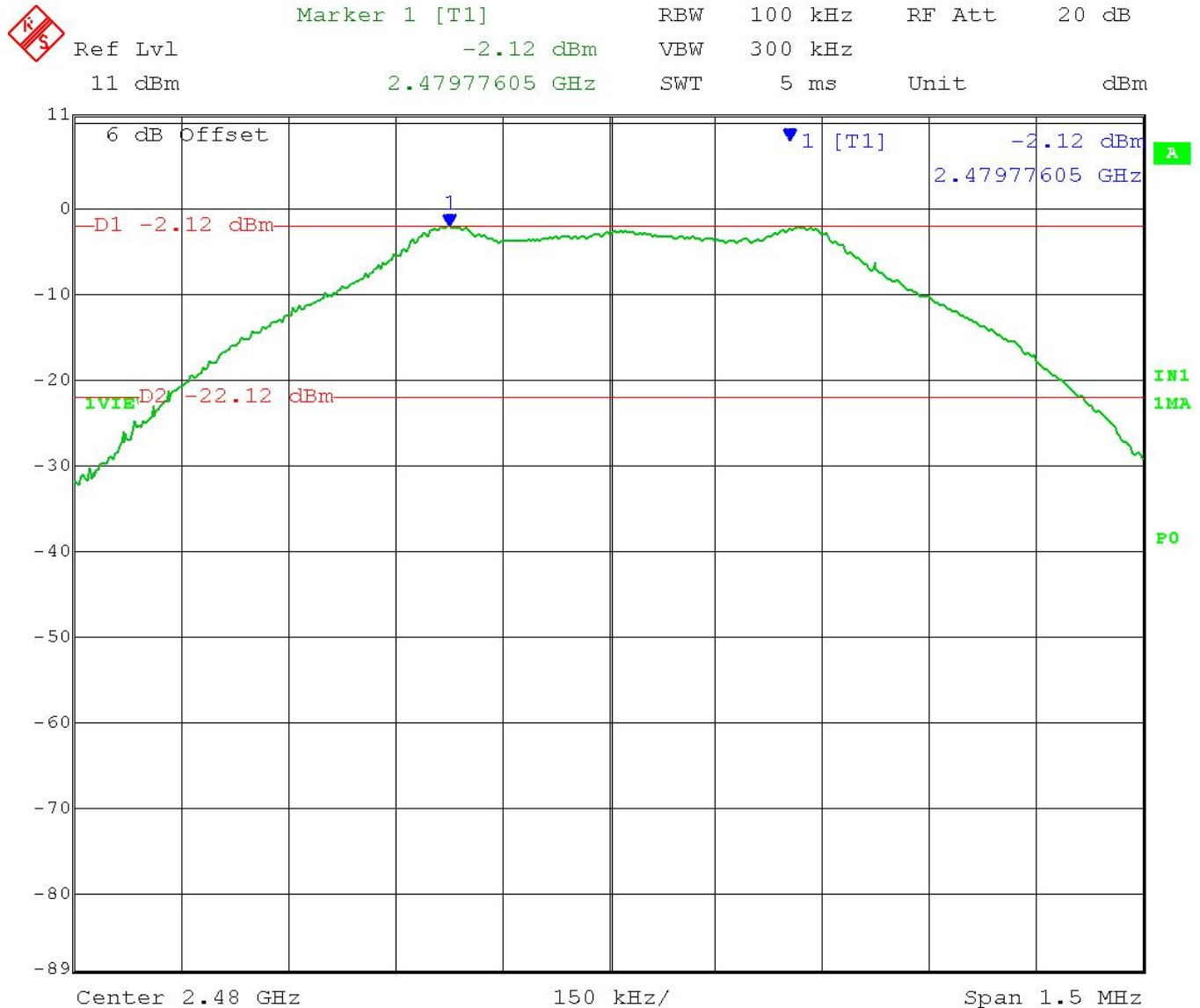
Test Method: ANSI C63.10 § 11.11.1 General Information
ANSI C63.10 § 11.11.2 Reference level measurement
ANSI C63.10 § 11.11.3 Emission level measurement

Setup:



ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Data: 100 KHz Reference Level Plot



Date: 14.NOV.2016 16:35:41

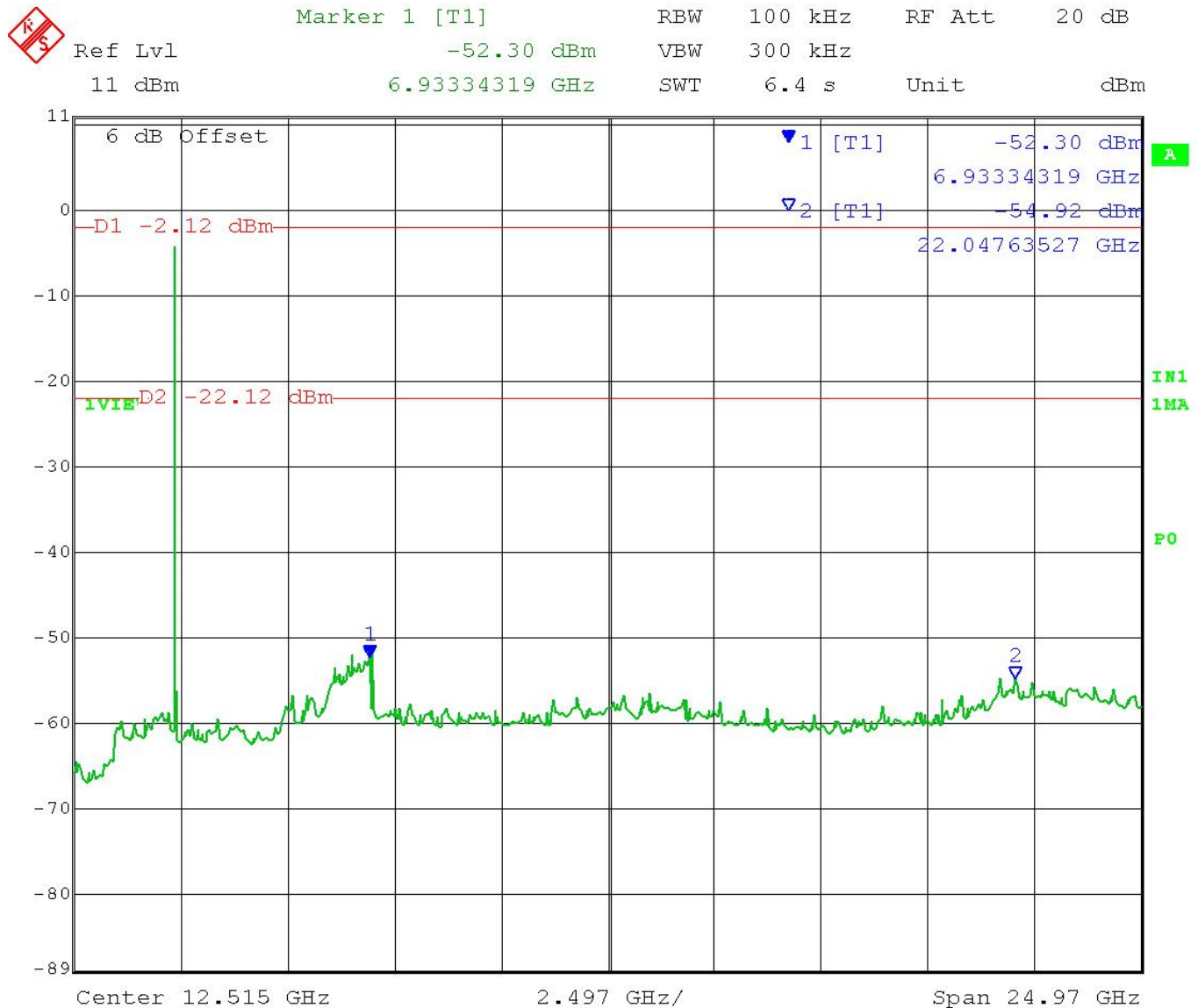
RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
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ANTENNA CONDUCTED SPURIOUS EMISSIONS

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



Date: 14.NOV.2016 16:38:32

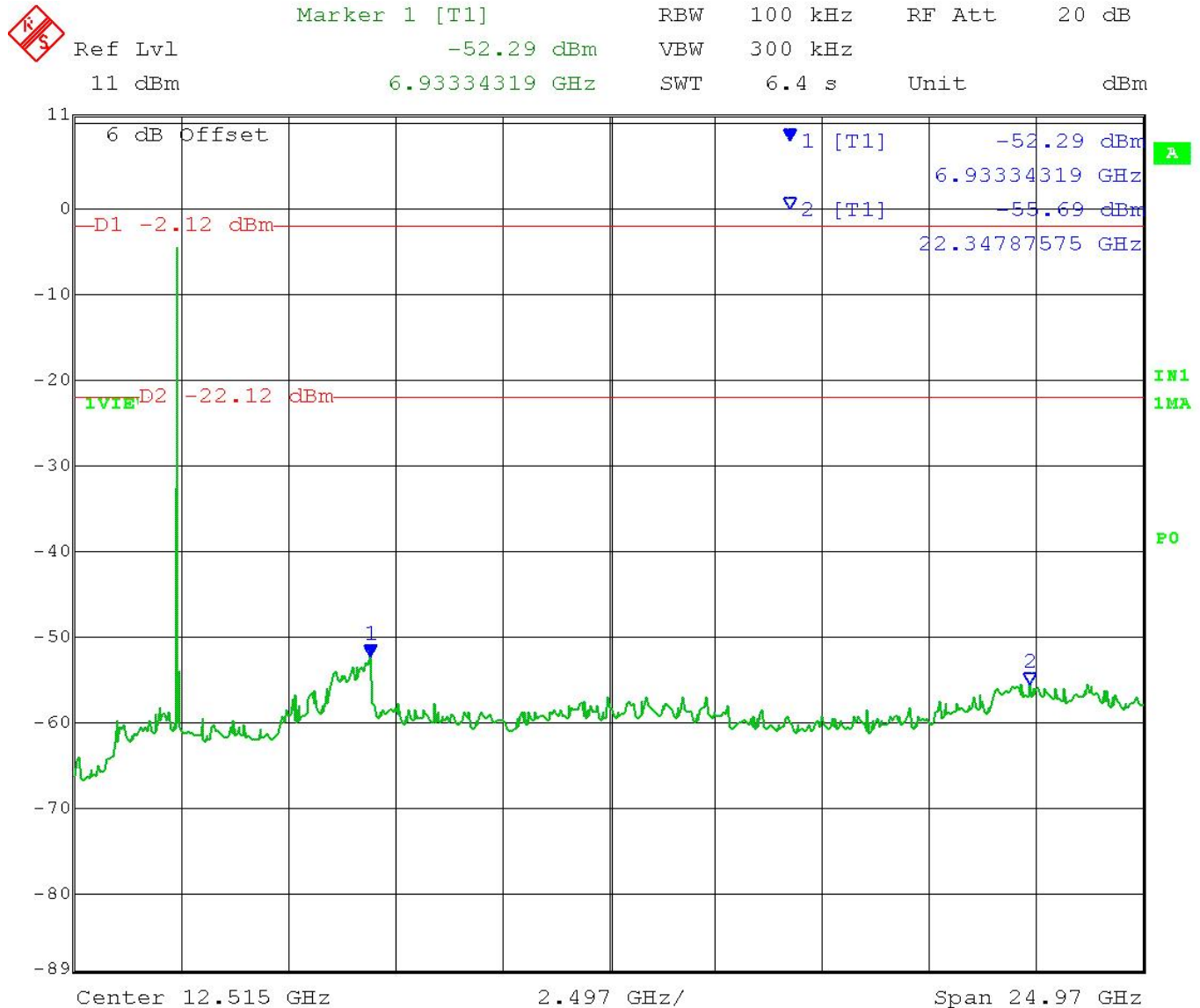
RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

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



Date: 14.NOV.2016 16:39:17

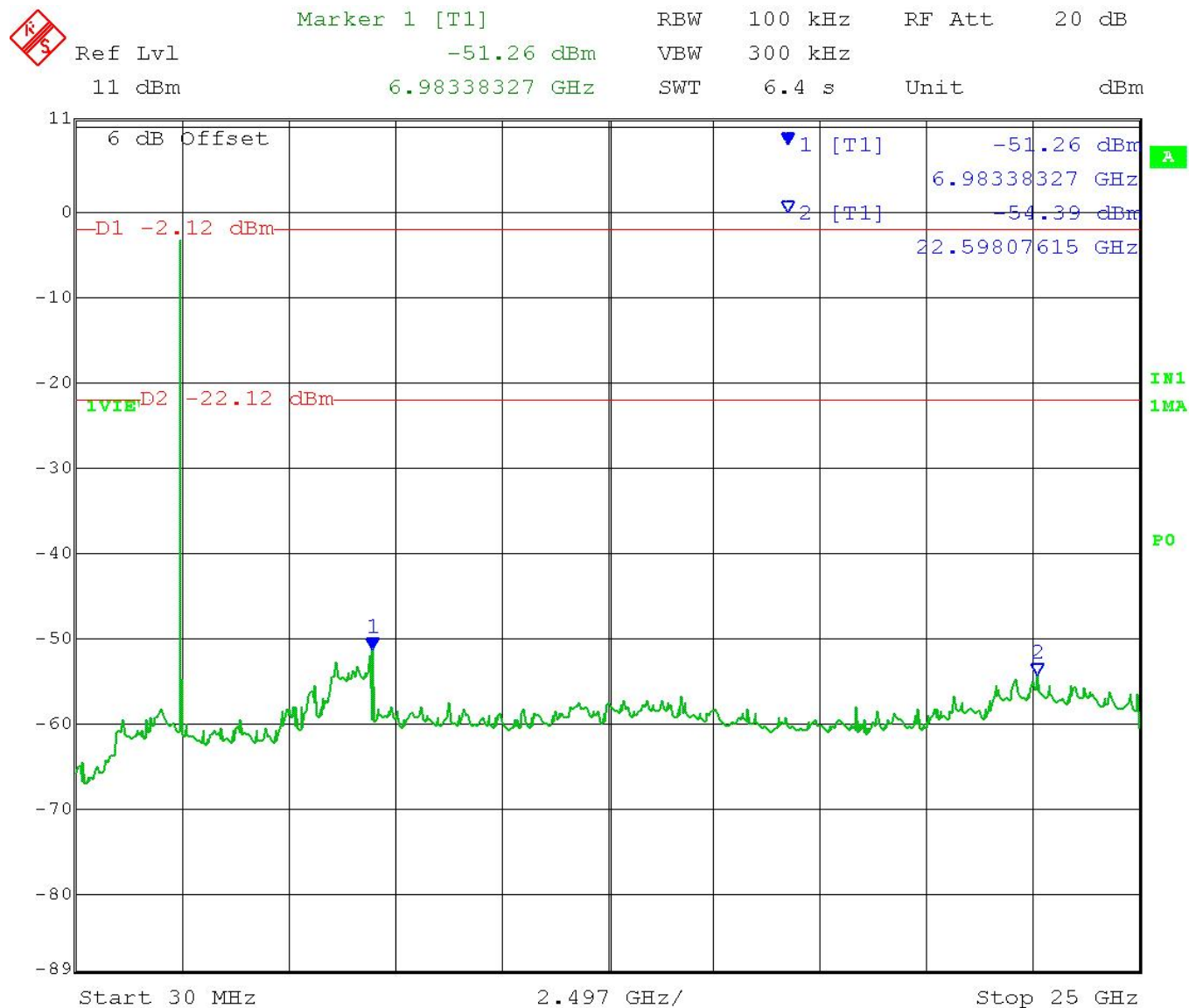
RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
 FCC ID: 2AAJO20212430
 IC: 11604A-20212430
 Report: 2273BUT16TestReport_Rev1

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ANTENNA CONDUCTED SPURIOUS EMISSIONS

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



Date: 14.NOV.2016 16:37:27

RESULTS: Meets Requirements

Applicant: MAYFONK, INC.
FCC ID: 2AAJO20212430
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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) $\mu\text{V/m}$ @ 300 meters
490 to 1705 kHz	24000/F (kHz) $\mu\text{V/m}$ @ 30 meters
1705 kHz to 30 MHz	29.54 dB $\mu\text{V/m}$ @ 30 meters
30 – 88	40.0 dB $\mu\text{V/m}$ @ 3 meters
80 – 216	43.5 dB $\mu\text{V/m}$ @ 3 meters
216 – 960	46.0 dB $\mu\text{V/m}$ @ 3 meters
Above 960	54.0 dB $\mu\text{V/m}$ @ 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 μV) 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:

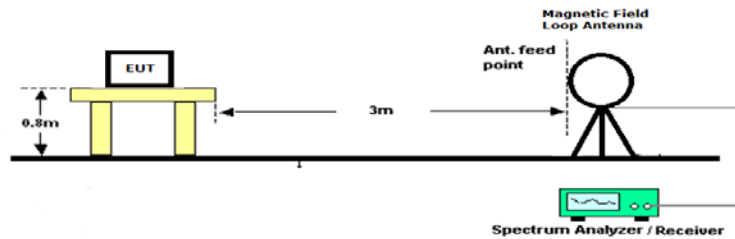
Freq (MHz)	Meter Reading	+ ACF	+ CL = FS
33	20 dB μV	+ 10.36 dB	+ 0.5 = 30.86 dB $\mu\text{V/m}$ @ 3m

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

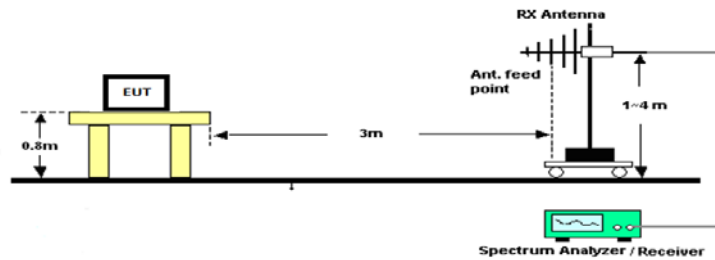
RADIATED SPURIOUS EMISSIONS

Setup:

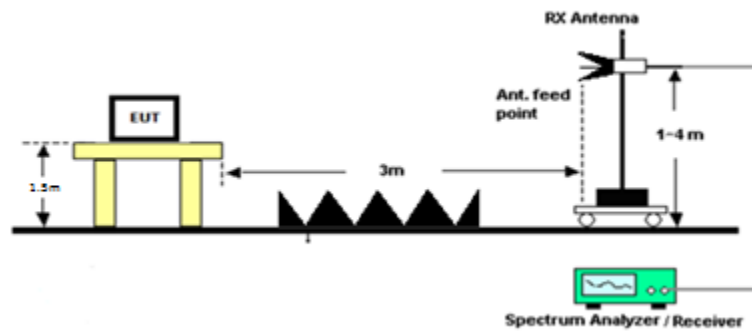
Emissions below 30 MHz



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 Freq MHz	Emission Frequency MHz	Detector QP/PK/AV	Meter Reading dBu V	Antenna Polarity	Coax Loss Db	Corr Factor dB/M	Field Strength dBu V/M	Limit dBu V/M	Margin dB
2402.0	4804.0	PK	2.7	H	8.1	34.0	44.7	74.0	9.3
2402.0	4804.0	AV	-12.1	H	8.1	34.0	30.0	54.0	24.0
2440.0	4880.0	PK	3.5	V	8.1	33.9	45.5	74.0	8.5
2440.0	4880.0	AV	-12.0	V	8.1	33.9	30.0	54.0	24.0
2480.0	4960.0	PK	2.9	H	8.2	34.0	45.1	74.0	8.9
2480.0	4960.0	AV	-11.7	H	8.2	34.0	30.5	54.0	23.5

Results Meet Requirements

EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Attenuator K 6dB 2W DC-40G	Narda	4768-6	1044-1	06/25/15	06/25/17
DC Power Supply	HP	6286A	1744A03842	N/A	N/A
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
Antenna: Standard Gain Horn 18-26.3 GHz	Systron	DBE-520-20	---	N/A	N/A
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	N/A	N/A
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
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	9/1/16	9/1/18
High Pass Filter 18GHz	Micro-Tronics	HPS18771	-002	9/1/16	9/1/18
Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	01/04/16	01/04/18
Peak Power Sensor	Boonton	55318	9924	09/13/16	09/13/18

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

Applicant: MAYFONK, INC.

FCC ID: 2AAJO20212430

IC: 11604A-20212430

Report: 2273BUT16TestReport_Rev1

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