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FCC 200-220MHz VHF MOBILE PART 90 TEST REPORT

APPLICANT	TAIT LIMITED
	535 Wairakei Road Christchurch 8140 NEW ZEALAND
FCC ID	CASTMBCOA
MODEL NUMBER	TMBCOA
PRODUCT DESCRIPTION	25W MOBILE TRANSCEIVER
STANDARD APPLIED	CFR 47 Part 90
DATE SAMPLE RECEIVED	8/3/2017
DATE TESTED	8/9/2017
TESTED BY	Tim Royer
APPROVED BY	Sid Sanders
TEST RESULTS	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Report Number	Version Number	Description	Issue Date
1424AUT17TestReport_	Rev1	Initial Issue	8/24/2017
	Rev2	Revised report	8/25/2017
	Rev3	Added Hardware & Software information per customer's request	8/30/2017

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
- 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: 2005 requirements.

I attest that the necessary measurements were made, under my supervision, at:

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



Tested by:

Name and Title: Tim Royer, Project Manager/Testing Engineer

Date: 8/14/2017



Reviewed and approved by: Name and Title: Sid Sanders, Engineer

Date: 8/24/17

Applicant: TAIT LIMITED
FCC ID: CASTMBC0A
Report: 1424AUT17TestReport_Rev2

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GENERAL INFORMATION
EUT Specification

EUT Description	25W MOBILE TRANSCEIVER
FCC ID	CASTMBC0A
Model Number	TMBC0A
Operating Frequency	220-222MHz
Test Frequencies	220.1 & 221.9 MHz
Type of Emission	7K60F2D/FXD/FXW, 11K0F3E
Modulation	FM
EUT Power Source	<input type="checkbox"/> 110–120Vac/50– 60Hz
	<input checked="" type="checkbox"/> DC Power 13.8V
	<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
Test Conditions	The temperature was 24-26°C with a relative humidity of 50-65%.
Revision History to the EUT	None
Test Exercise	The EUT was placed in continuous transmit mode.
Applicable Standards	ANSI/TIA 603-C:2004, FCC CFR 47 Part 90
Test Facility	Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 USA.

EUT Specification Contd'

	Type Code	FCC ID	Product code	Serial Number
Mobile	TMBC0A	CASTMBC0A	T02-00012-CBAA	20466893

Hardware and Software: Mobile:

Type	Code and Version	Target Hardware
Hardware ID	TMBC12-0100_0007	Head
Boot Code	QCB1B_S00_3.01.03.0001	Head
Radio Application	QCB1F_S00_1.01.08.1023	Head
FPGA Image	QCB1G_S01_1.07.01.0001	Head
Hardware ID	TMBB12-C000_0008	Torso
Boot Code	QMB1B_S00_3.01.03.0001	Torso
DSP	QMB1A_E00_2.15.01.0060	Torso
Radio Application	QMB1F_E00_2.15.01.0060	Torso
Firmware Package	QI93M_E00_2.15.01.0060	Torso
FPGA Image	QMB1G_S01_1.11.00.0001	Torso

TEST RESULTS SUMMARY

Test Description	FCC RULE PART NO.	RESULT
Modulation Characteristics	2.1047(a)(b)	Pass
RF Power Output	2.1046(a), 90.541(d), 90.542(a)(7), 90.635(b)	Pass
Occupied Bandwidth	2.1049(c)(h), 90.210(b)(g)(h), 90.691	Pass
Spurious Emissions at Antenna Terminal	2.1051(a), 90.210(b)(g)(h), 90.691, 90.543(c)	Pass
Field Strength of Spurious Radiation	2.1053, 90.210(b)(g)(h), 90.691, 90.543(c)	Pass
Frequency Stability	2.1055, 90.213, 90.539(c)	Pass

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RF POWER OUTPUT

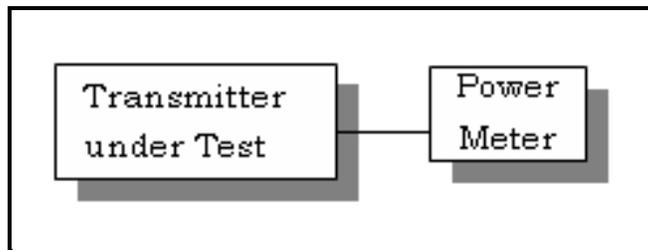
Rule Part No.: Part 2.1046(a), Part 90

Test Requirements: Manufacturer's Specification

Method of Measurement: RF power is measured by using a 50-ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage (if battery operated), or a properly adjusted power supply (if not battery operated), and the transmitter properly adjusted the RF output measures:

For the device with a fixed or integral antenna, the RF power is measured as ERP. The substitution method was used. The RF output measures:

Test Setup Diagram:



Test Data: RF power of the EUT can be set at 1W to 25W.

OUTPUT POWER:

Tuned Frequency (MHz)	RF POWER (H)		RF Power (L)	
	dBm	W	dBm	W
220.1	43.54	22.59	29.97	0.993
221.9	43.52	22.49	29.88	0.97

Part 2.1033 (C) (8) DC Input into the final amplifier

FOR LOW POWER SETTING INPUT POWER: (13.8V) (1.13A) = 15.6 Watts

FOR HIGH POWER SETTING INPUT POWER: (13.8V) (4.6A) = 63.5 Watts



MODULATION CHARACTERISTICS

Part 2.1033(c)

Part 2.1033(c) (4) Type of Emission: 11K2F1D, 11K2F2D, and 11K2F3E

FCC Part 90.209

FCC Part 90.207

DMR TDMA

BANDWIDTH CALCULATION

Type of Emission: 11K0F3E

$$B_n = 2M + 2DK$$

$$M = 3000$$

$$D = 2500$$

$$K=1$$

$$B_n = 2(3000) + 2(2500) = 11k$$

And

Type of Emission: 7K6F2D/FXD/FXW

Shown from 99% Occupied bandwidth plot.

MODULATION CHARACTERISTICS

AUDIO FREQUENCY RESPONSE

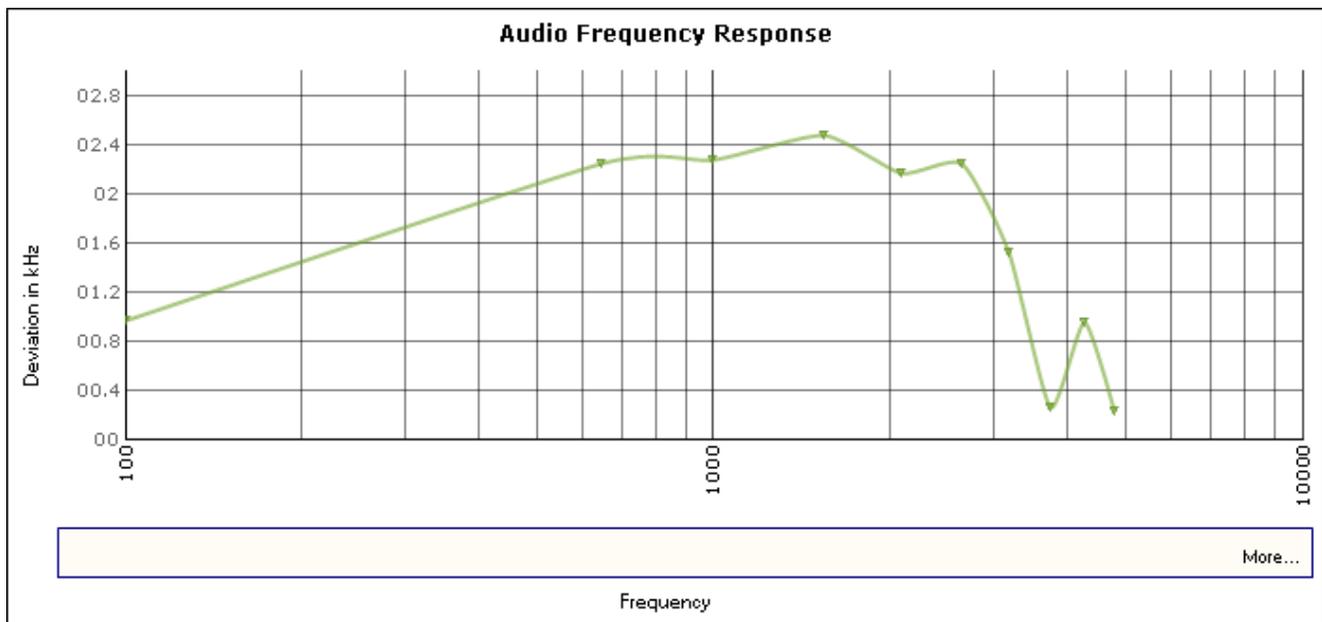
Rule Part No.: Part 2.1047(a) (b)

Test Requirements: Reporting Only

Method of Measurement: ANSI/TIA-603 § 2.2.6 Audio Frequency Response

TEST DATA:

AUDIO FREQUENCY RESPONSE – 12.5 kHz



MODULATION CHARACTERISTICS -

AUDIO INPUT VERSUS MODULATION

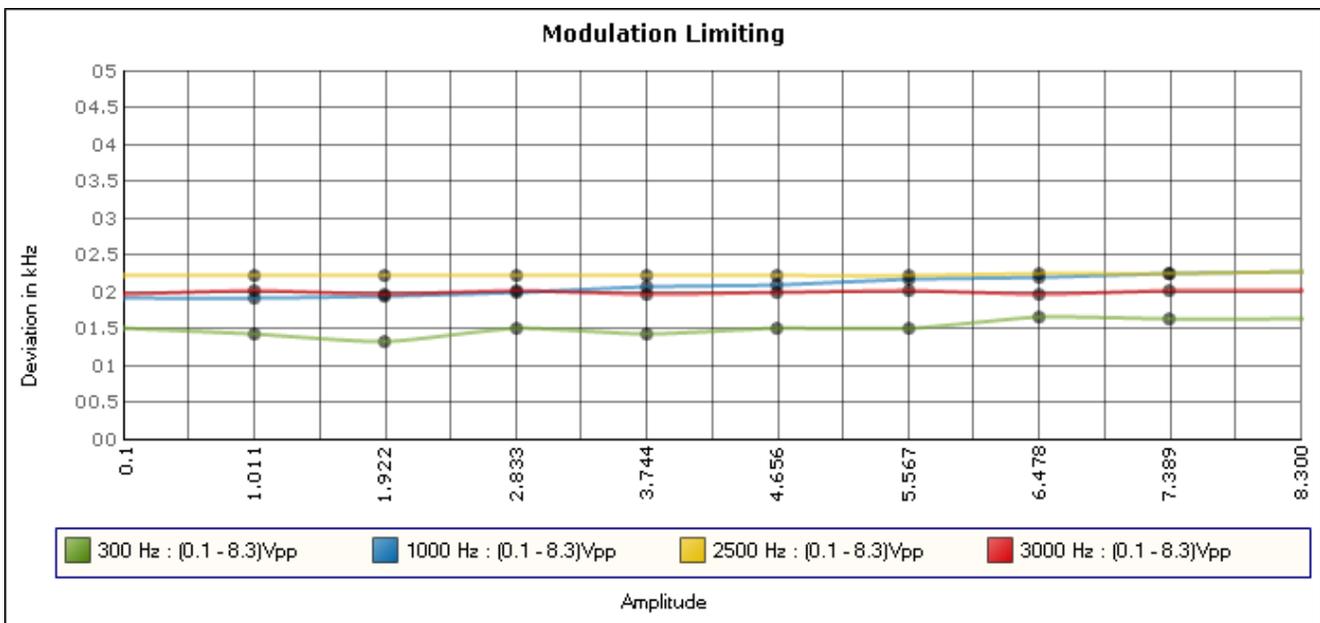
RULE PART NO: Part 2.1047(b) & 90

REQUIREMENT Modulation cannot exceed 100% of the rated FM deviation.

Method of Measurement: ANSI/TIA-603 § 2.2.3

Test data:

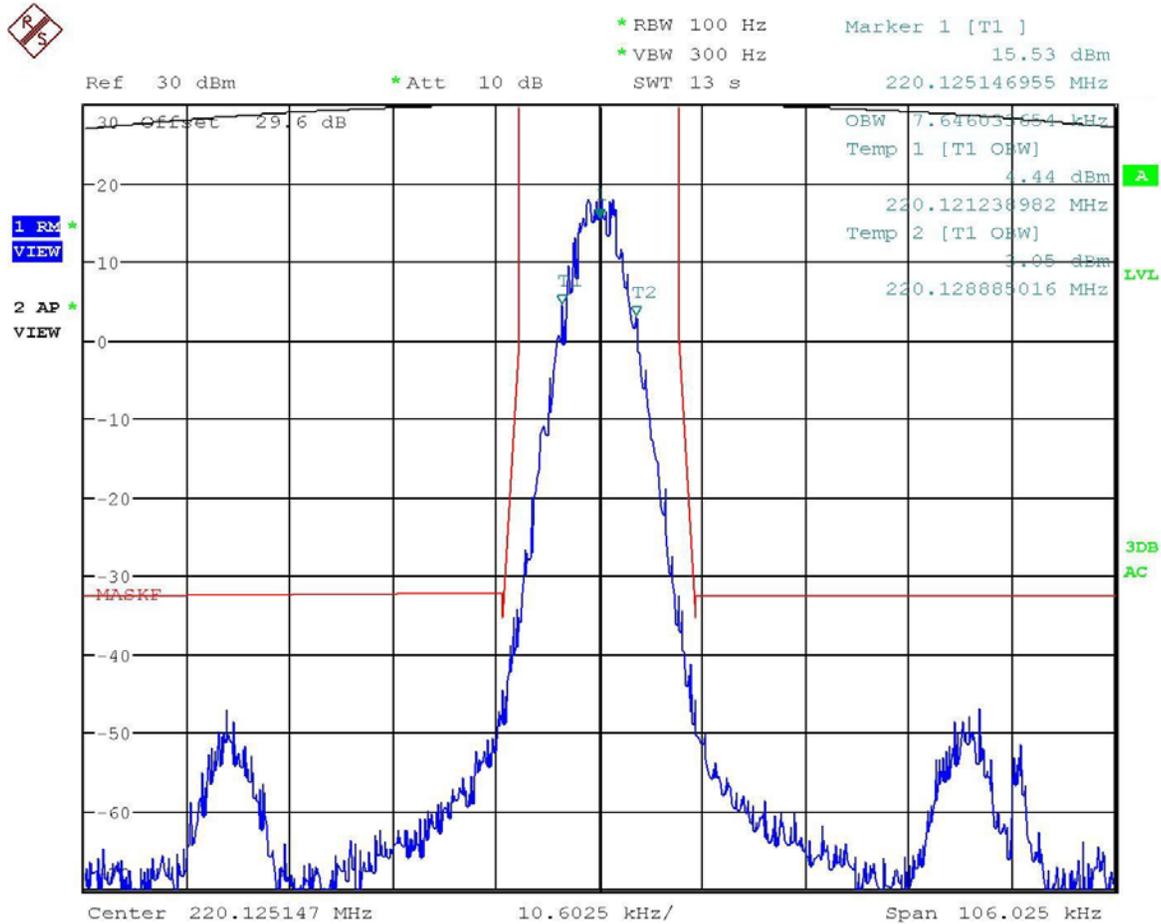
MODULATION LIMITING 12.5 kHz



MODULATION CHARACTERISTICS

Type of Emission: 7K6F2D/FXD/FXW

99% Occupied Bandwidth Plot



Date: 22.AUG.2017 11:03:52

OCCUPIED BANDWIDTH

Part 2.1049(c) EMISSION BANDWIDTH:

Part 90.210(f) **Emission Mask F** For transmitters operating in the 220-222 MHz frequency band, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to the edge of the authorized bandwidth f_e : Zero dB.

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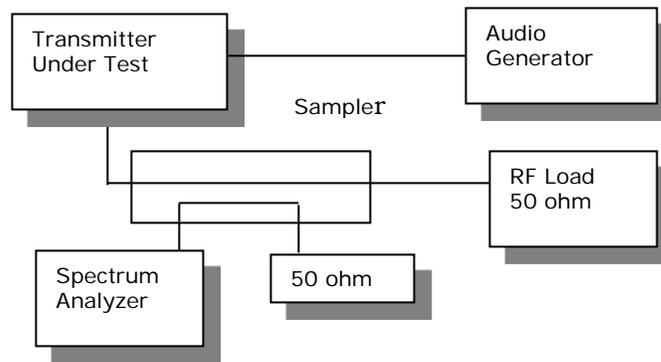


(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 2 kHz up to and including 3.75 kHz: $30 + 20(f_d - 2)$ dB or $55 + 10 \log (P)$, or 65 dB, whichever is the lesser attenuation.

(3) On any frequency beyond 3.75 kHz removed from the center of the authorized bandwidth f_d : At least $55 + 10 \log (P)$ dB.

Method of Measurement: ANSI/TIA 603-D: 2010

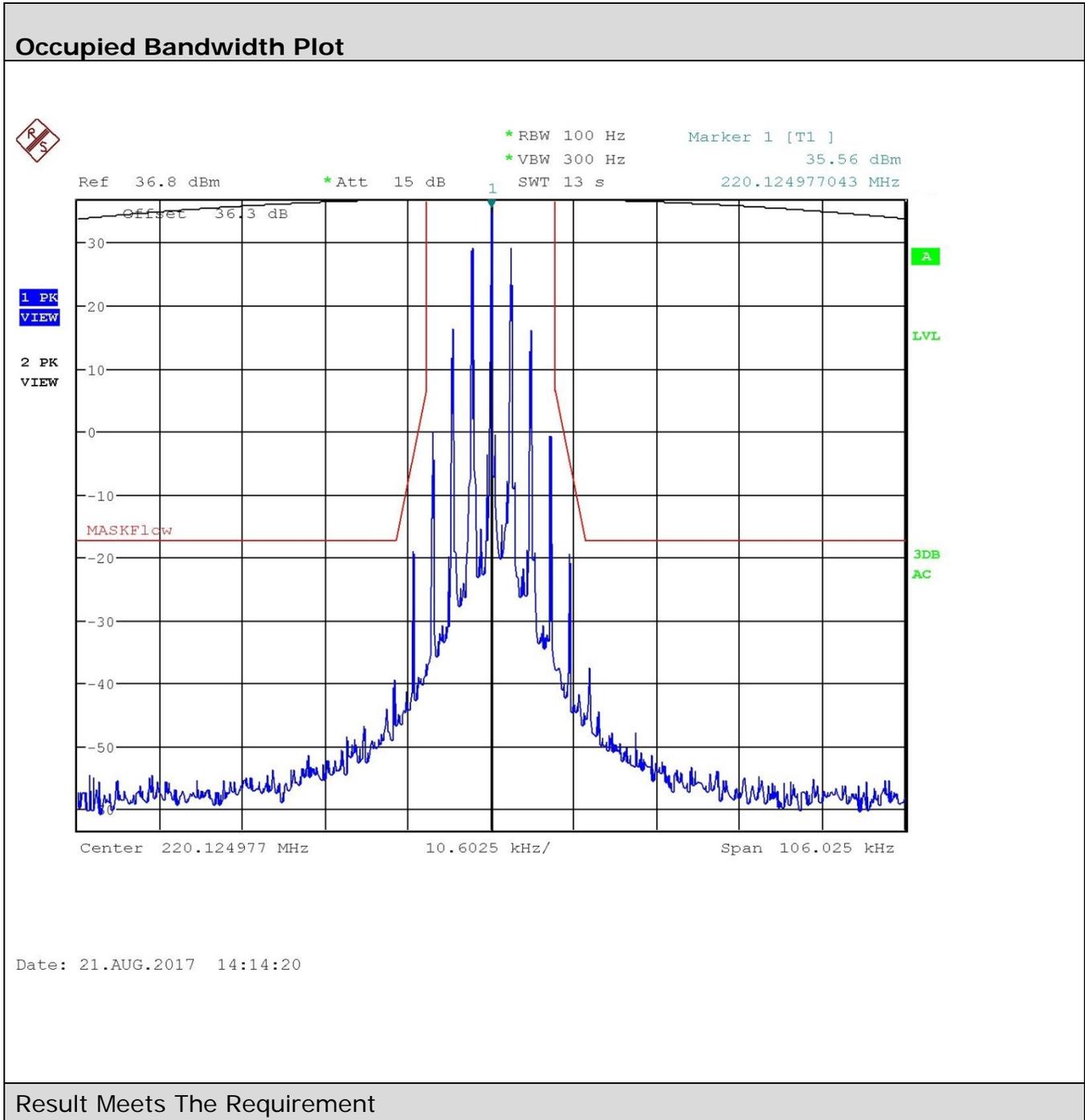
Test Setup Diagram:



Test Data: See the plots below

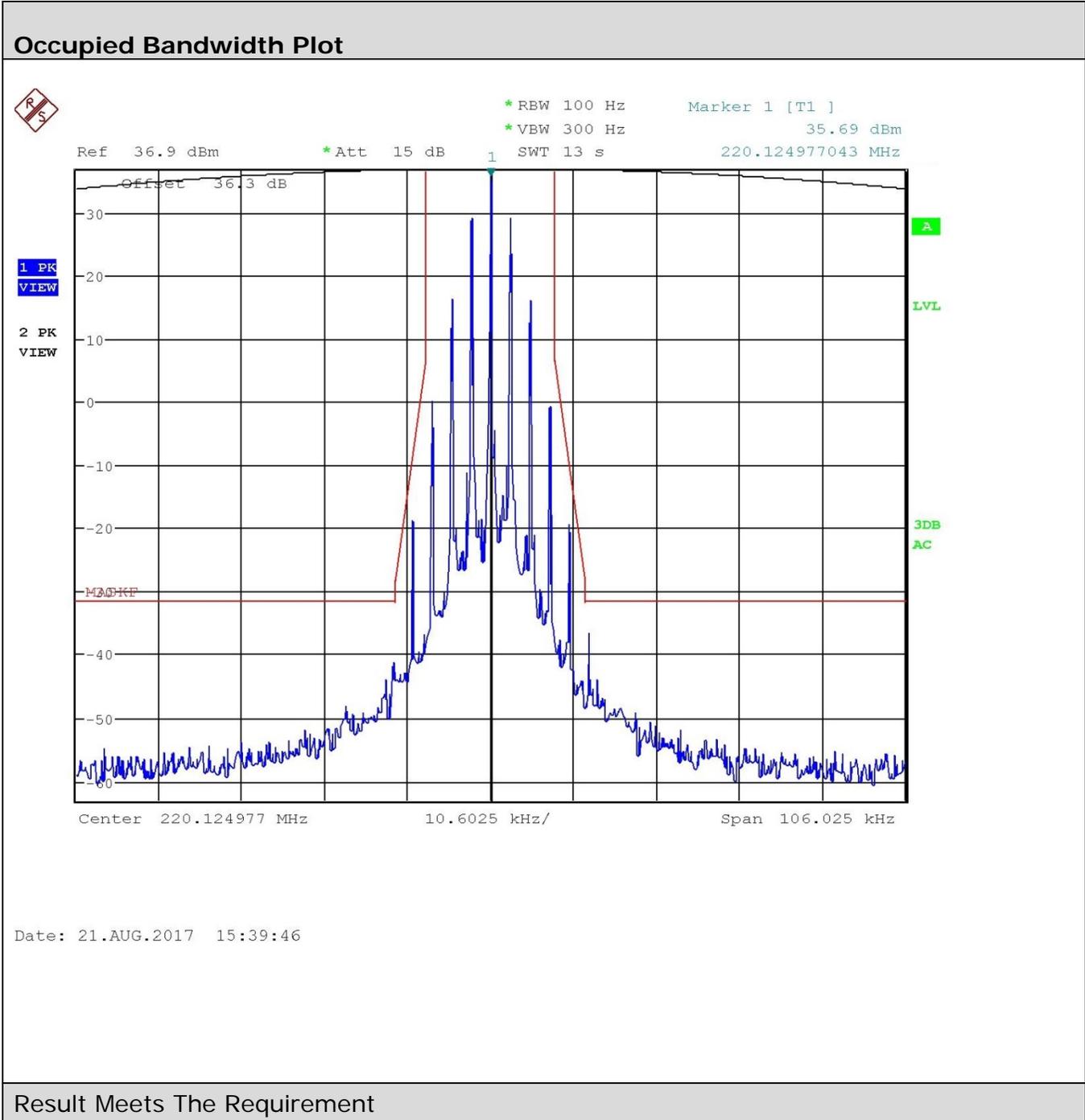
OCCUPIED BANDWIDTH PLOTS: ANALOG
Part 90.210(f) Emission Mask F - ANALOG

Test Data: Low Power 220.100 MHz



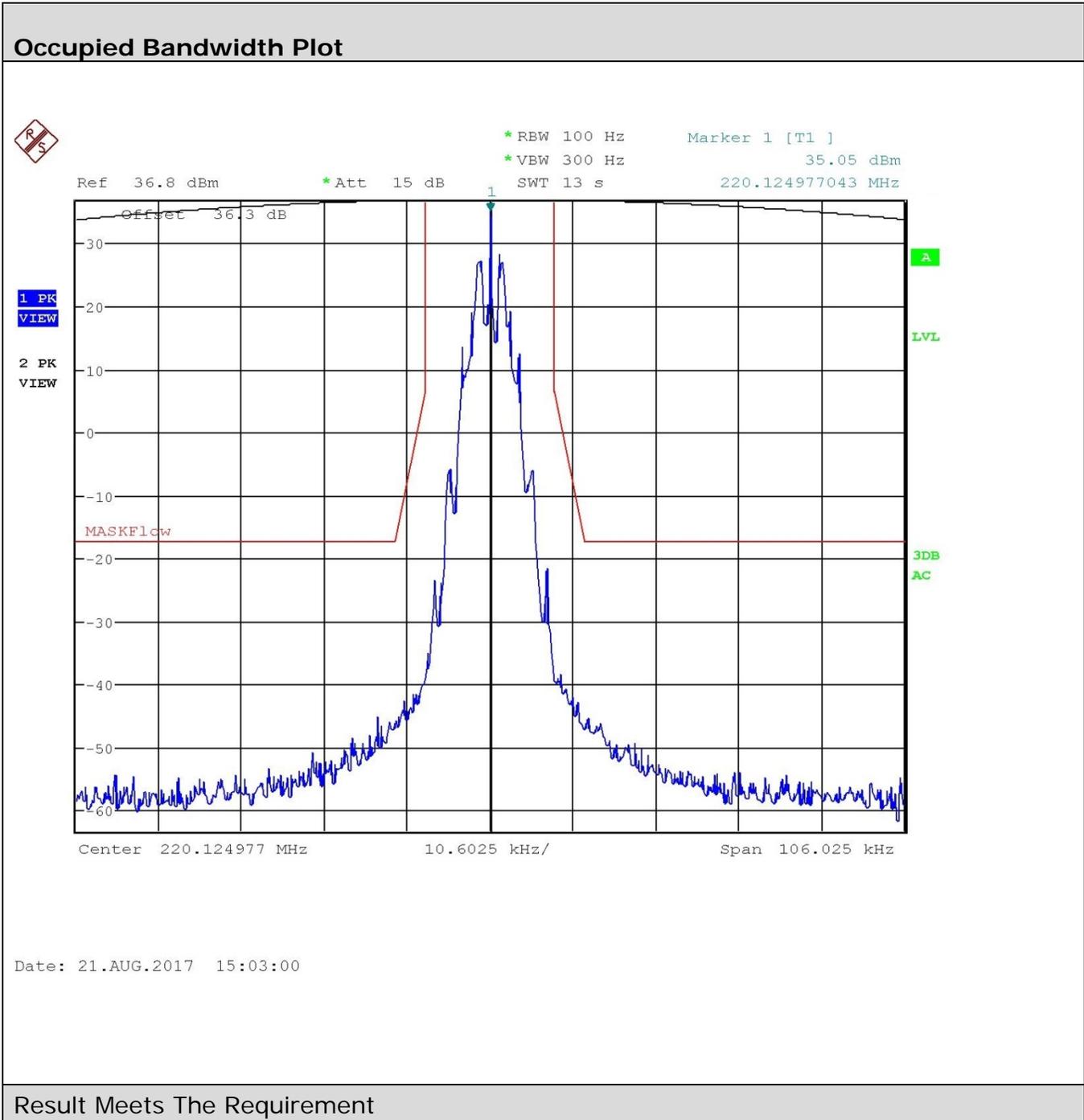
OCCUPIED BANDWIDTH PLOTS: ANALOG
Part 90.210(f) Emission Mask F - ANALOG

Test Data: High Power 220.100 MHz



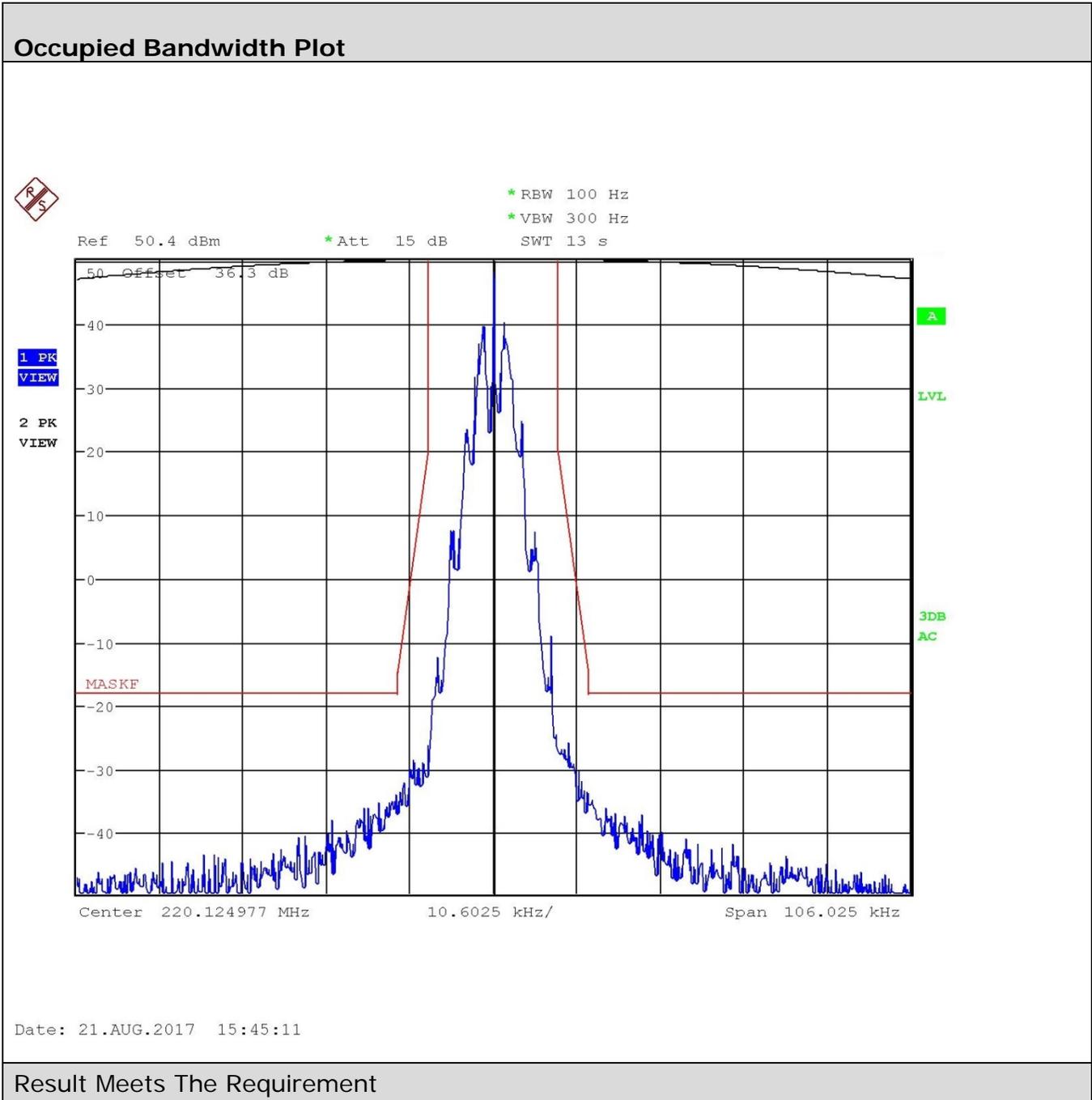
OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - FFSK

Test Data: Low Power 220.100 MHz



OCCUPIED BANDWIDTH PLOTS: DIGITAL
Part 90.210(f) Emission Mask F - FFSK

Test Data: High Power 220.100 MHz

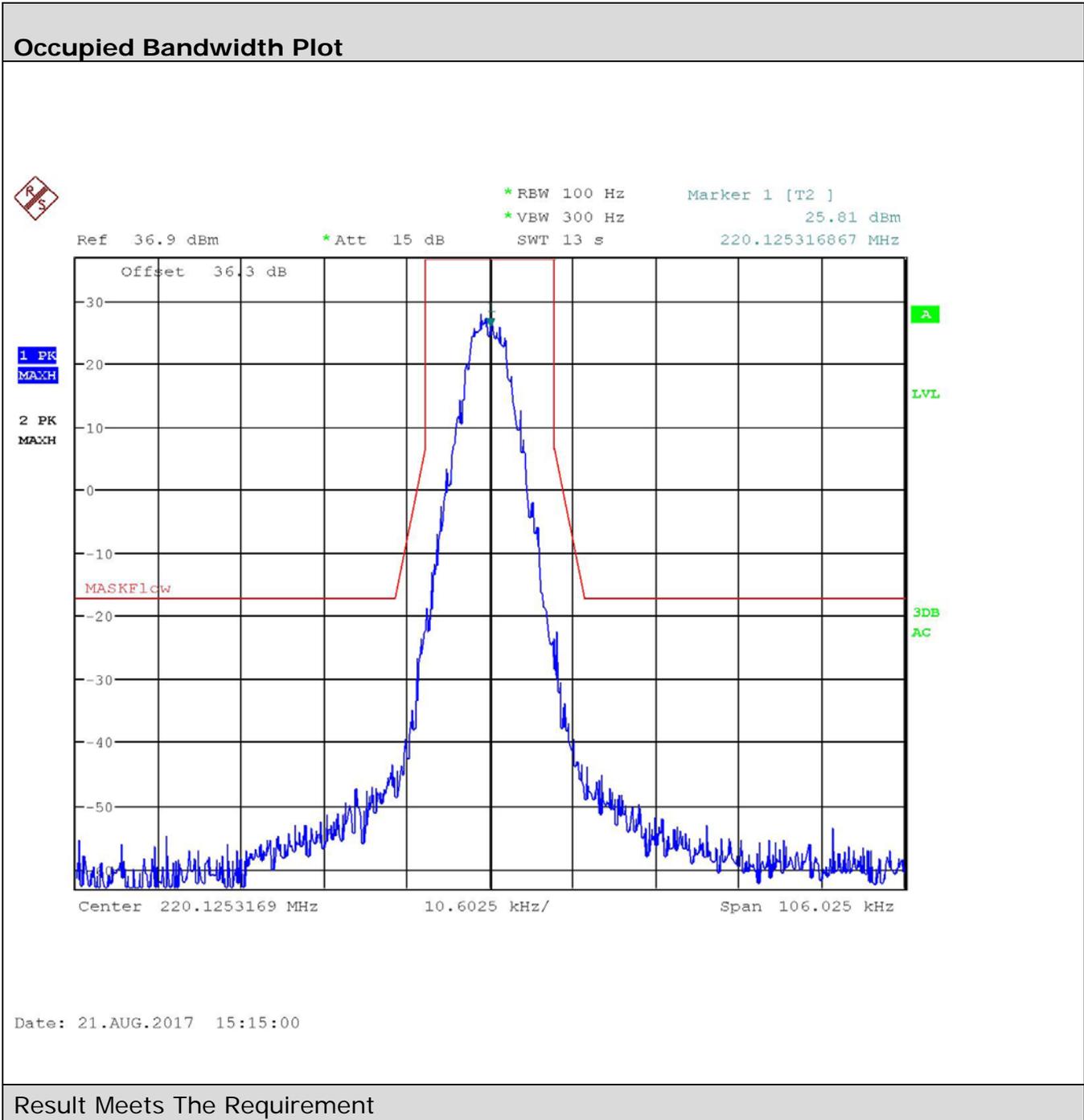


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OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - DMR

Test Data: Low Power 220.100 MHz

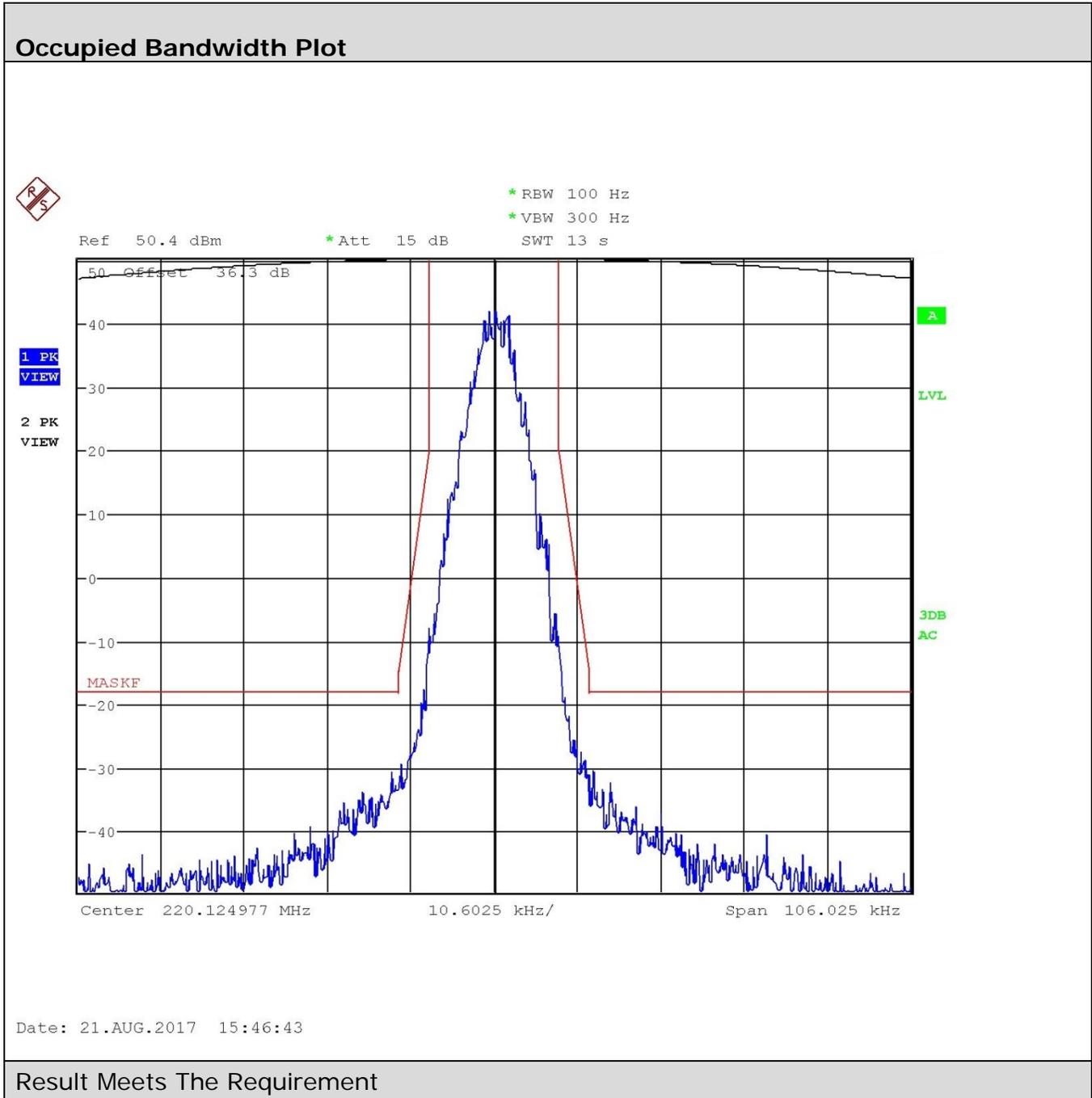


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OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - DMR

Test Data: High Power 220.100 MHz

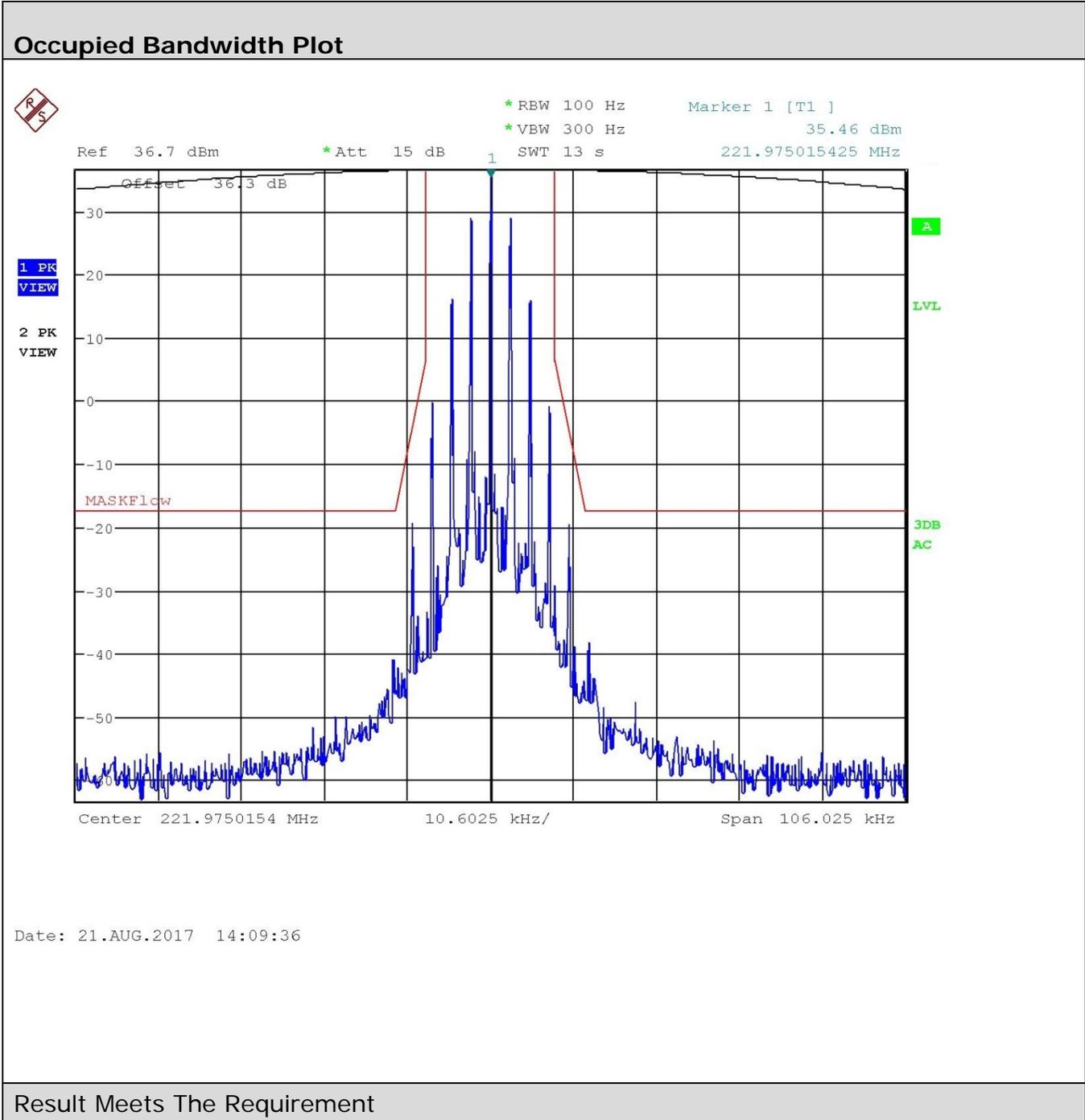


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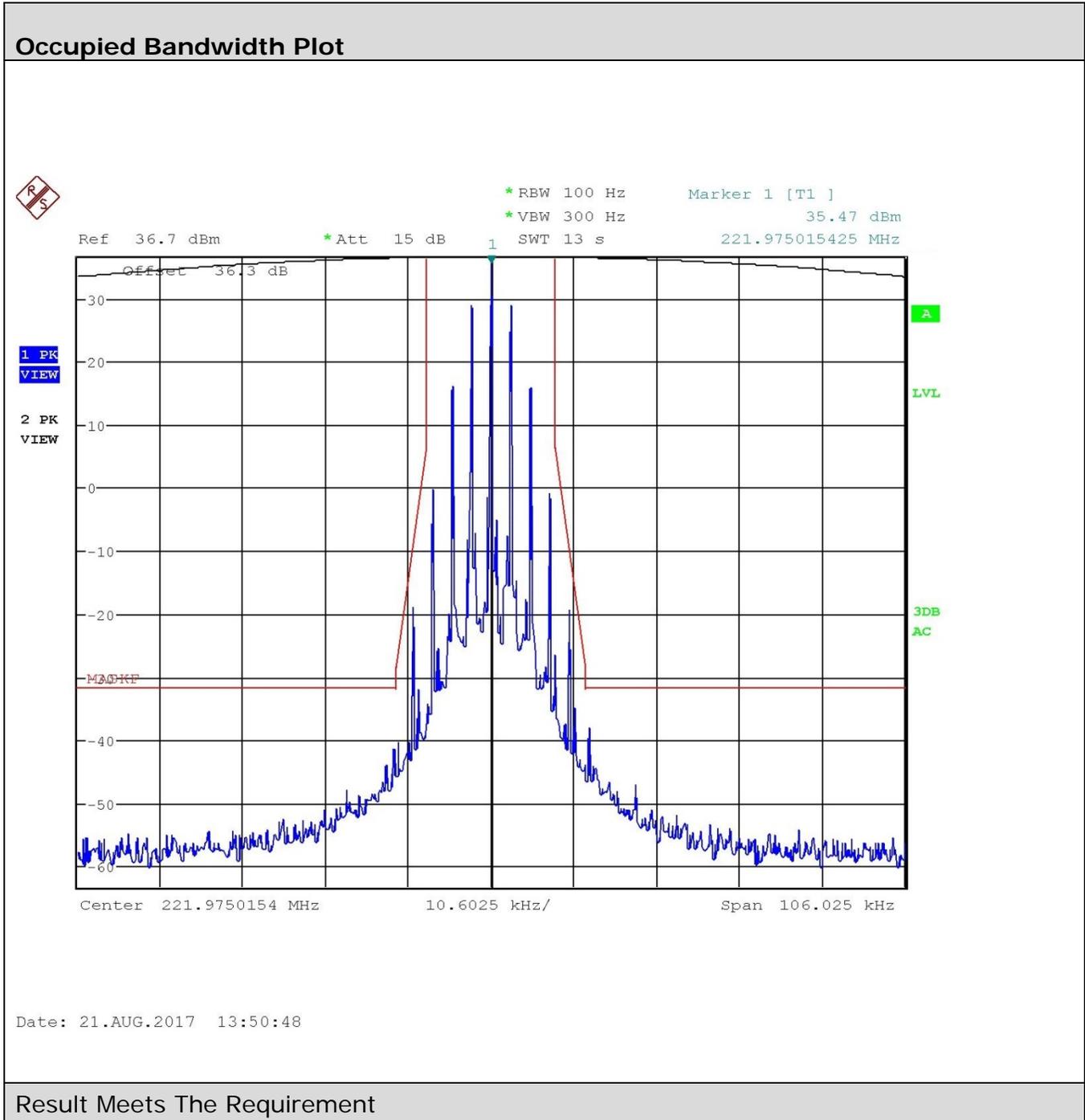
OCCUPIED BANDWIDTH PLOTS: ANALOG
Part 90.210(f) Emission Mask F - ANALOG

Test Data: Low Power 221.900 MHz



OCCUPIED BANDWIDTH PLOTS: ANALOG
Part 90.210(f) Emission Mask F - ANALOG

Test Data: High Power 220.100 MHz

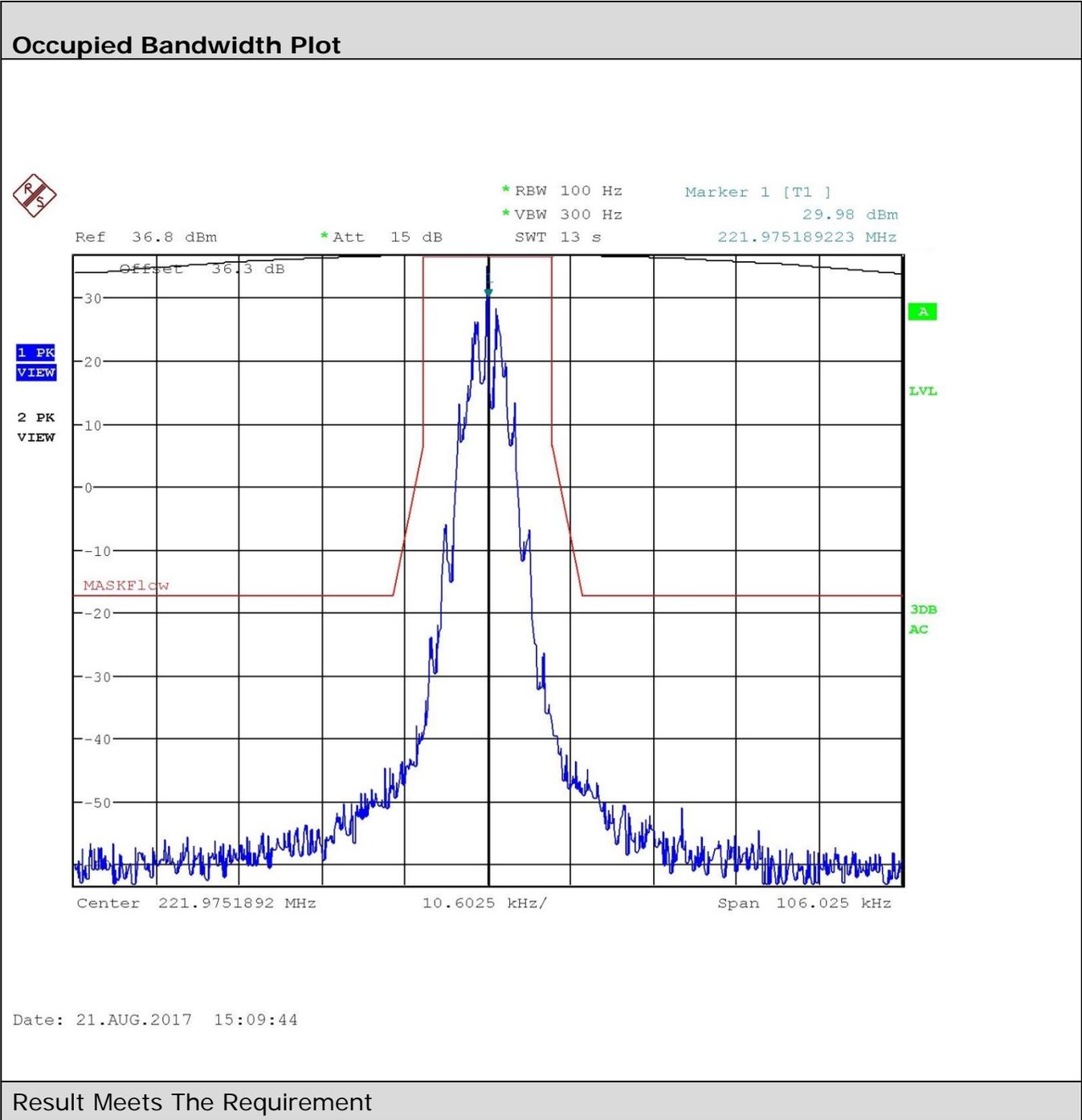


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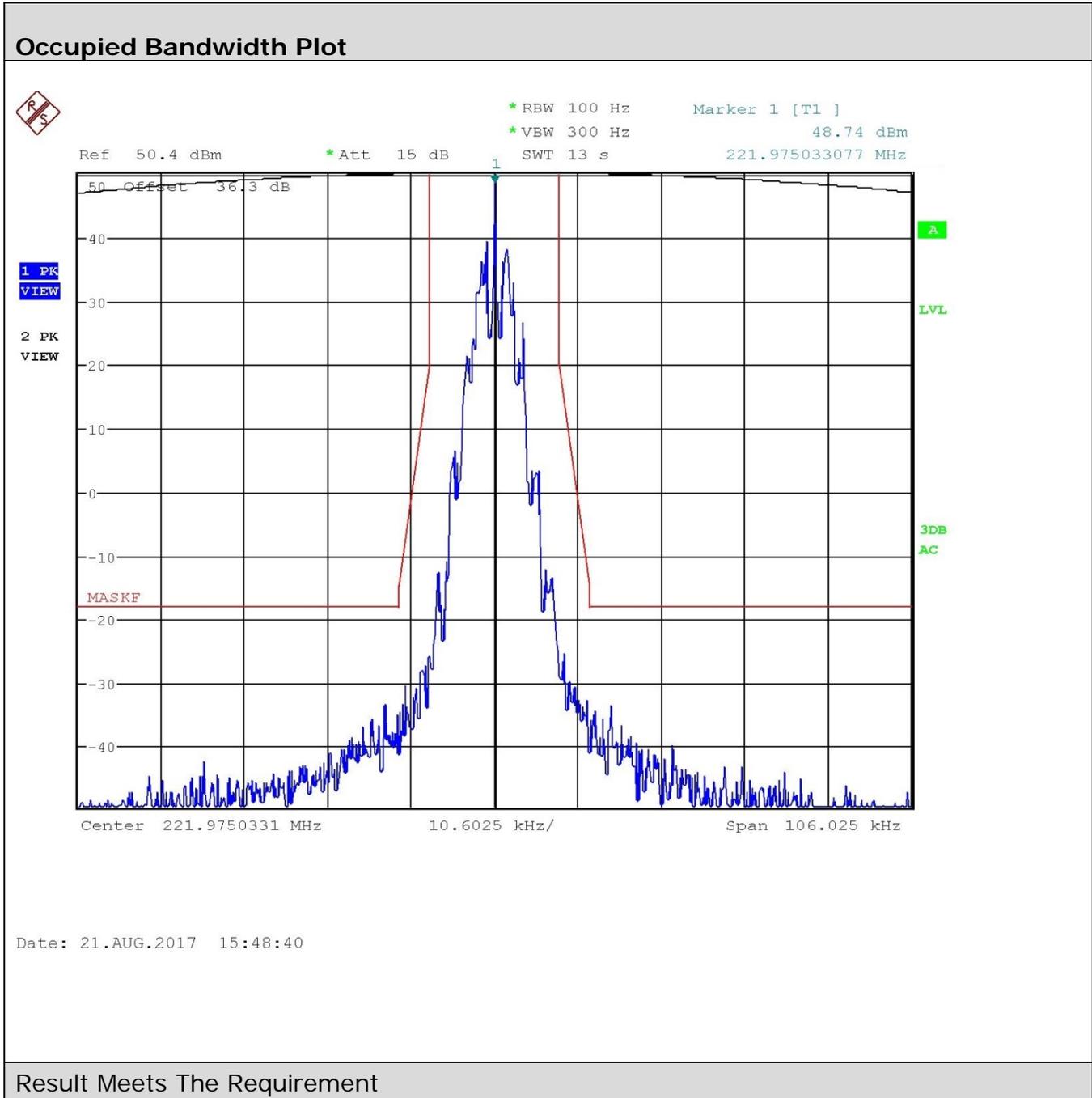
OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - FFSK

Test Data: Low Power 221.900 MHz



OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - FFSK

Test Data: High Power 221.900 MHz

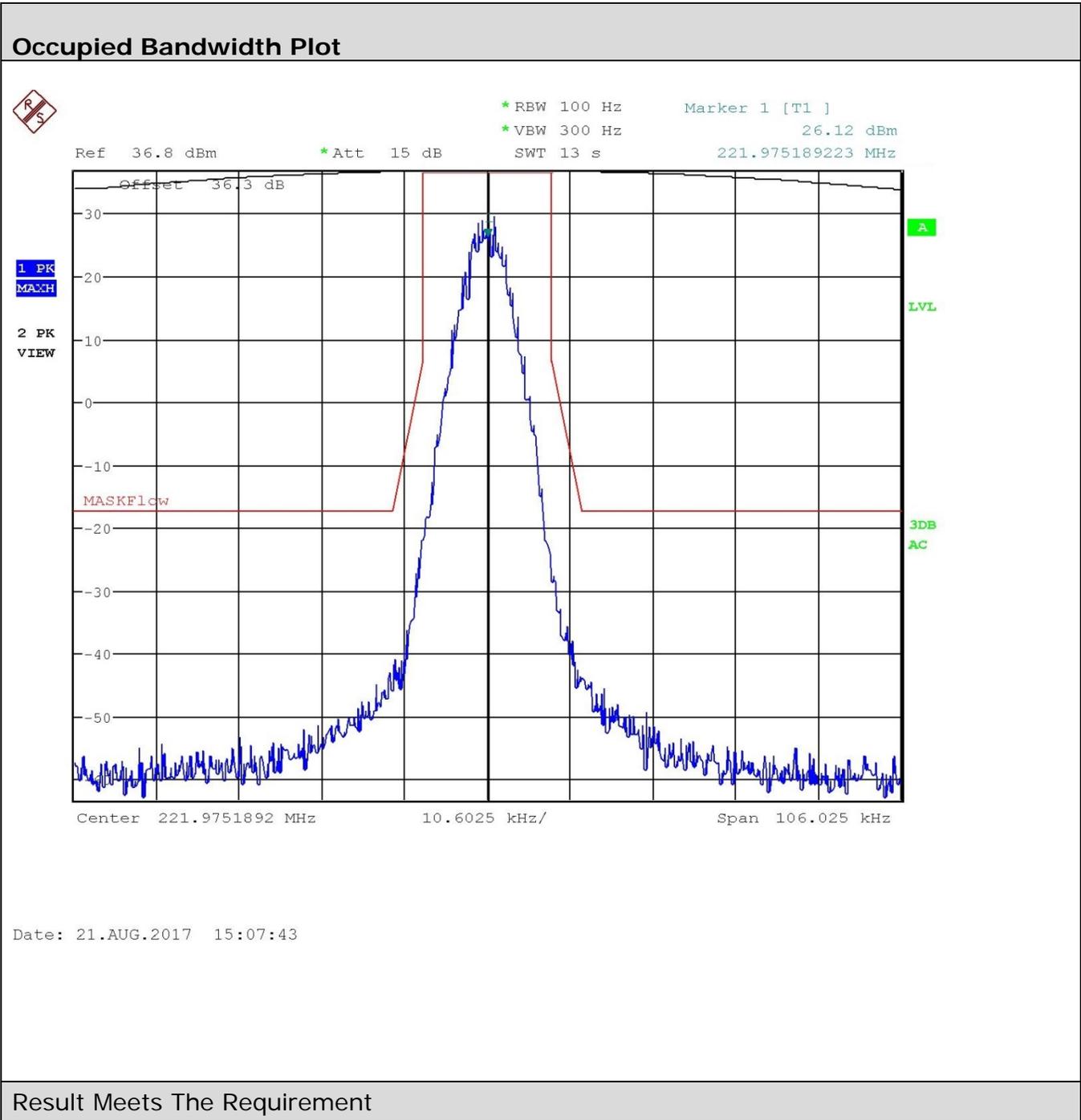


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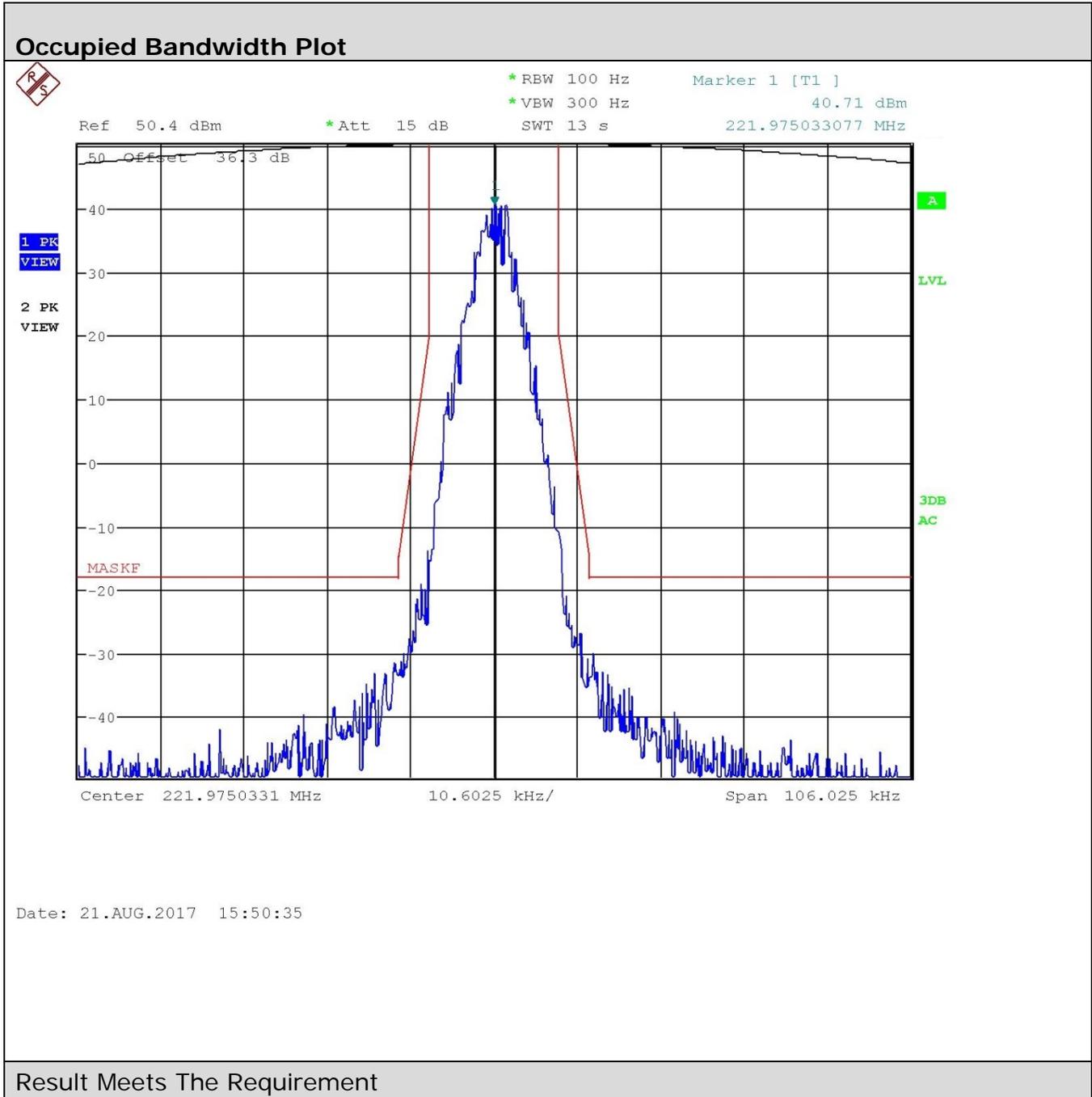
OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - DMR

Test Data: Low Power 221.900 MHz



OCCUPIED BANDWIDTH PLOTS: DIGITAL
 Part 90.210(f) Emission Mask F - DMR

Test Data: High Power 221.900 MHz



SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

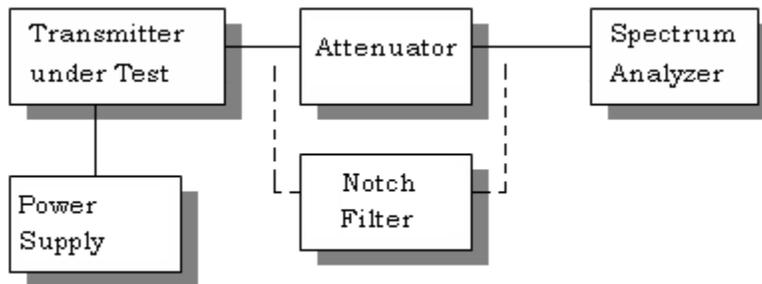
Rule Part No.: Part 2.1051(a)

Requirements:

- 12.5 kHz Channel Spacing = $50 + 10 \log(25.0) = 64.0$ dBc (high power)
- 12.5 kHz Channel Spacing = $50 + 10 \log(5.0) = 57.0$ dBc (low power)

Method of Measurement: The RBW = 100 kHz, VBW = 300 kHz and the span set to 10.0 MHz and the spectrum was scanned from 30 MHz to the 10th harmonic of the fundamental. Above 1 GHz the resolution bandwidth was 1 MHz and the VBW = 3 MHz and the span to 50 MHz. The carrier was modulated 100% using a 2500 Hz tone. The spectrum was scanned from the lowest frequency generated to at least the 10th harmonic of the fundamental. The measurements were made in accordance with standard ANSI/TIA 603-D: 2010.

Method of Measuring Conducted Spurious Emissions: ANSI/TIA-603 § 2.2.13
 Unwanted Emissions: Conducted Spurious



Test Data: High Power Low end of Band

Test Data: 221.000 MHz

SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 220.100 MHz

Power Output	dBm		Watts	Limit (dB)
	43.54		22.59	63.54

Frequency		dBc	Margin
220.100		0.00	0.00
440.200		120.16	100.16
660.300		120.84	100.84
880.400	*	125.97	105.97
1100.500	*	138.94	118.94
1320.600	*	138.94	118.94
1540.700	*	138.94	118.94
1760.800	*	138.94	118.94
1980.900	*	138.94	118.94
2201.000	*	138.94	118.94

*** Indicates only the noise floor was present**

RESULTS: MEET REQUIREMENTS

SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Data: Low Power 220.100 MHz

Power Output	dBm		Watts	Limit (dB)
	29.97		0.99	49.97

Frequency		dBc	Margin
220.100		0.00	0.00
440.200		110.64	90.64
660.300		122.15	102.15
880.400	*	125.37	105.37
1100.500	*	125.37	105.37
1320.600	*	125.37	105.37
1540.700	*	125.37	105.37
1760.800	*	125.37	105.37
1980.900	*	125.37	105.37
2201.000	*	125.37	105.37

*** Indicates only the noise floor was present**

RESULTS: MEET REQUIREMENTS

SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 221.900 MHz

Power Output	dBm		Watts	Limit (dB)
	43.52		22.49	63.52

Frequency		dBc	Margin
221.900		0.00	0.00
443.800		119.94	99.94
665.700		115.03	95.03
887.600	*	126.29	106.29
1109.500	*	126.29	106.29
1331.400	*	126.29	106.29
1553.300	*	126.29	106.29
1775.200	*	126.29	106.29
1997.100	*	126.29	106.29
2219.000	*	126.29	106.29

*** Indicates only the noise floor was present**

RESULTS: MEET REQUIREMENTS

SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Data: Low Power 221.900 MHz

Power Output	dBm		Watts	Limit (dB)
	29.88		0.97	49.88

Frequency		dBc	Margin
221.900		0.00	0.00
443.800		116.31	96.31
665.700		122.06	102.06
887.600	*	125.28	105.28
1109.500	*	125.28	105.28
1331.400	*	125.28	105.28
1553.300	*	125.28	105.28
1775.200	*	125.28	105.28
1997.100	*	125.28	105.28
2219.000	*	125.28	105.28

* Indicates only the noise floor was present

RESULTS: MEET REQUIREMENTS

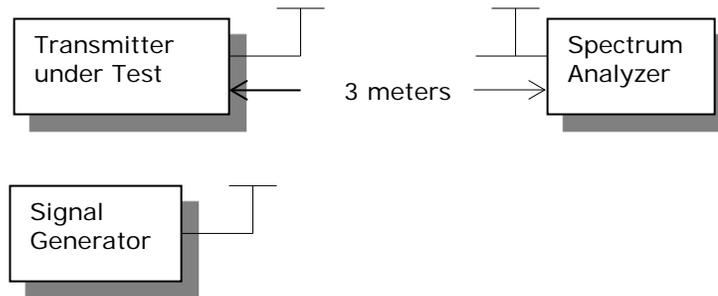
FIELD STRENGTH OF SPURIOUS EMISSIONS

Rule Parts. No.: Part 2.1053

Requirements: 12.5 kHz Channel Spacing = $50 + 10 \log(OP) = 64.0 \text{ dBc}$

METHOD OF MEASUREMENT: The test procedure used was ANSI/TIA 603-D: 2010, using a Rohde & Schwarz – EMI test receiver. The bandwidth (RBW) of the spectrum receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per ANSI/TIA 603-D: 2010 using the substitution method. Measurements were made at the test site of TIMCO ENGINEERING, INC. located at 849 NW State Road 45, Newberry, FL 32669.

Test Setup Diagram:



Test Data High Power

Power Output	dBm 43.52
--------------	--------------

Watts 22.49	Limit (dB) 63.52
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Tuned Freq MHz	Emission Frequency MHz	Antenna Polarity	erp (dBmW)	Margin
220.10	440.20	V	-46.06	26.06
220.10	440.20	H	-47.49	27.49
220.10	440.20	H	-47.69	27.69
220.10	440.20	V	-53.97	33.97
220.10	880.40	V	-45.69	25.69
220.10	880.40	H	-41.58	21.58
220.10	1100.50	V	-54.33	34.33
220.10	1100.50	H	-48.93	28.93
220.10	1320.60	H	-46.62	26.62
220.10	1320.60	V	-43.58	23.58
220.10	1540.70	V	-49.37	29.37
220.10	1540.70	H	-52.25	32.25
220.10	1760.80	H	-46.49	26.49
220.10	1760.80	V	-45.44	25.44
220.10	1980.90	V	-47.30	27.30
220.10	1980.90	H	-48.68	28.68
220.10	2201.00	H	-39.44	19.44
220.10	2201.00	V	-42.08	22.08

RESULTS: MEET REQUIREMENTS

Test Data High Power

Power Output	dBm 43.52
--------------	--------------

Watts 22.49	Limit (dB) 63.52
----------------	---------------------

Tuned Freq MHz	Emission Frequency MHz	Antenna Polarity	erp (dBmW)	Margin
221.90	443.80	V	-47.96	27.96
221.90	443.80	H	-45.79	25.79
221.90	665.70	H	-46.95	26.95
221.90	665.70	V	-49.66	29.66
221.90	887.60	V	-40.90	20.90
221.90	887.60	H	-42.21	22.21
221.90	1109.50	V	-54.02	34.02
221.90	1109.50	H	-52.45	32.45
221.90	1331.40	H	-43.56	23.56
221.90	1331.40	V	-45.27	25.27
221.90	1553.30	V	-49.94	29.94
221.90	1553.30	H	-51.93	31.93
221.90	1775.20	H	-44.57	24.57
221.90	1775.20	V	-49.54	29.54
221.90	1997.10	V	-48.44	28.44
221.90	1997.10	H	-48.94	28.94
221.90	2219.00	H	-37.23	17.23
221.90	2219.00	V	-44.16	24.16

RESULTS: MEET REQUIREMENTS

Applicant: TAIT LIMITED
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FREQUENCY STABILITY

Rule Parts. No.: Part 2.1055, Part 90.213

Requirements: Temperature range requirements: -30 to +50° C.
Voltage Variation +, -15%
±2.5 PPM

Method of Measurements: ANSI/TIA 603-D: 2010.

Test Data:

Test Data:

Method of Measurements: Was in accordance with test procedures detailed in the standard list above.

Test Data: 200 - 220 MHz Band

Temperature	Frequency MHz	Hz	PPM
25°C (reference)	220.1248		
-30°C	220.12476	-40	-0.182
-20°C	220.12477	-30	-0.136
-10°C	220.12477	-30	-0.136
0°C	220.12476	-40	-0.182
10°C	220.12479	-10	-0.045
20°C	220.1248	0	0.000
30°C	220.1248	0	0.000
40°C	220.12481	10	0.045
50°C	220.12481	10	0.045
Battery Voltage	Frequency	Hz	PPM
-15%	220.1248	0	0.000
15%	220.1248	0	0.000

RESULTS: MEET REQUIREMENTS

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STATE OF THE MEASUREMENT UC

The data and results referenced in this document are true and accurate. The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16-4 or ENTR 100-028 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: “Uncertainty in EMC Measurements” and is documented in the Timco Engineering, Inc. quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Timco Engineering, Inc. is reported:

Test Items	Measurement Uncertainty	Notes
RF Frequency Accuracy	± 49.5 Hz	(1)
RF Conducted Power	±0.93dB	(1)
Conducted spurious emission of transmitter valid up to 40GHz	± 1.86dB	
Occupied Bandwidth	±2.65%	
Audio Frequency Response	±1.86dB	
Modulation limiting	± 1.88%	
Radiated RF Power	± 1.4dB	
Maximum frequency deviation: Within 300 Hz and 6kHz of audio freq.	± 1.88%	
Within 6kHz and 25kHz of audio Freq.	± 2.04%	
Rad Emissions Sub Meth up to 26.5GHz	± 2.14dB	
Rad Emissions Sub Meth up to 18-40 GHz	± 2.04%	
Adjacent channel power	± 1.47dB	(1)
Transient Frequency Response	± 1.88%	
Temperature	± 1.0°C	(1)
Humidity	± 5.0%	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
DC Power Supply	HP	6286A	1744A03842	N/A	N/A
Antenna: Biconical 1096	Eaton	94455-1	1096	08/01/17	08/01/19
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	07/26/17	07/26/19
DC Power Supply	HP	6286A	2411A09414	N/A	N/A
Antenna: Standard Gain Horn 8.2-12.5 GHz	Systron Donner	DBG-520-20	Not Serialized	N/A	N/A
CHAMBER	Panashield	3M	N/A	04/25/16	12/31/17
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	03/01/17	03/01/19
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 4.10.7.0	N/A	N/A
Antenna: Active Loop	ETS-Lindgren	6502	00062529	11/18/15	11/18/17
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/18
Coaxial Cable - BMBM-1000-00 Silver	Semflex	LISN Cable	BMBM-1000-00	01/05/17	01/05/18
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	08/09/16	08/09/18
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

END OF REPORT

Applicant: TAIT LIMITED
 FCC ID: CASTMBCOA
 Report: 1424AUT17TestReport_Rev2

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