



Timco Engineering, Inc., an IIA Company
 849 NW State Road 45, Newberry, Florida 32669
 (352) 472-5500 / testing@timcoengr.com

Test Report # TR_3285-20_FCC_PART73_2

Revision: 2

Issue Date: September 15, 2020

Final Test Date: August 25, 2020



Test Report- FCC PART 73 / TBC
Prepared For: BEI Electronics, LLC

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature
 (YYYY-MM-DD): 2020-09-14

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1 Customer Information

Applicant: BEI Electronics, LLC
Address: 4100 N 24TH STREET, QUINCY IL 32305 US

Contact: Andy Berry
Telephone: 217-224-9600
Email address: aberry@bdcast.com

1.1 Test Result Summary

The following test procedure and guidance were used for measuring Licensed FM Broadcast Stations (TBC); FCC KDB 442401 and ANSI C63.26-2015. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.



The Following is for Test item FCC ID: DDEETG3500

FCC Clauses	Description of the requirements	Result (Pass, Fail or N/A)
Applicable Clauses from Part 2		
2.1033 (c)(8)	The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.	For Info Only
2.202(g)(III)(3)	Necessary bandwidth (Sound Broadcasting)	Pass
2.1046 (a)	RF Power Output	Pass
2.1047 (a)	Modulation characteristics	Pass
2.1047 (b)	Modulation Limiting	Pass
2.1049 (e)(4)	FM broadcast transmitters for multiplex operation (SCA)	Pass
2.1049 (e)(5)	FM broadcast transmitter for stereophonic operation	Pass
2.202	Bandwidths	Pass
2.1051	Spurious emissions at antenna terminals.	Pass
2.1053	Field strength of spurious radiation.	Pass
2.1055	Frequency stability.	Pass
Applicable Clauses from Part 73		
73.267	Determining operating power.	Pass
73.317	FM transmission system requirements	Pass
73.840	Operating power and mode tolerances.	Pass



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2 Location of Testing

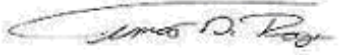

Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. (“IIA”).
 Testing was performed at Timco’s permanent laboratory located at 849 NW State Road 45,
 Newberry, Florida 32669

FCC test firm # 578780
 FCC Designation # US1070
 FCC site registration is under A2LA certificate # 0955.01
 ISED Canada test site registration # 2056A
 EU Notified Body # 1177
 For all designations see A2LA scope # 0955.01

2.1 Testing was performed, reviewed by:

Dates of Testing: August 25, 2020

Signature:  _____
 Sr. EMC Engineer
 EMC-003838-NE 

Name & Title: Tim Royer, EMC Engineer
Date of Signature
 (YYYY-MM-DD): 2020-09-11

Signature: _____

Name & Title: _____
Date of Signature
 (YYYY-MM-DD): _____



3 Test Sample(s) (EUT/DUT)

The test sample was received: August 25, 2020

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification

FCC ID:	DDEETG3500
Brief Description	FM Broadcast Station – FCC Part 73G
Type of Modular	N/A
Model(s) #	ETG3500
Trade name	FM BROADCAST TRANSMITTER
Firmware version	1.16
Software version	3.05
Serial Number	200100821

Technical Characteristics

Technology	Licensed FM Broadcast Transmitter
Frequency Range	88-108 MHz
RF O/P Power (Max.)	3500
Modulation	FM
Bandwidth & Emission Class	406KF3E
Duty Cycle	100%
Antenna Type	N/A
Antenna Gain (for each ant.)	N/A
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	AC 110-120 Vac (50-60 Hz)

Antenna Characteristics

Frequency Range	Mode / BW	Ant Gain 1	Ant Gain 2
88-108 MHz	Operational	N/A	



3.2 Configuration of EUT

Test Modes

Band	Modulation	Number of Ant.
88-108MHz	FM	1

Test Frequencies	Number of Ant.
88,98,108 MHz	1

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

No peripherals used.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.



4 Test methods & Applicable Regulatory Limits

Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed FM Broadcast Stations (TBC); FCC KDB 442401 and ANSI C63.26-2015.

- 1) ANSI C63.26-2015;
- 2) FCC KDB 442401

Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 73

5 Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	1.42
Radiated Emissions (30 – 200 MHz)	5.49
Radiated Emissions (200 – 1000 MHz)	5.79
Radiated Emissions (1 GHz – 18 GHz)	4.37
The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6 Environmental Conditions

Temperature & Humidity

Measurements performed at the test site did not exceed the following:

TEMPERATURE	23 C +/- 5%
HUMIDITY	55% +/- 5%
BARAMETRIC PRESSURE	30.05 inHg

Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.

7 List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.



Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

List of Test Equipment

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Active Loop	ETS-Lindgren	6502	62529	12/11/2017	12/11/2020
Antenna: Biconical 1057	Eaton	94455-1	1057	12/13/2017	12/13/2020
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	8/26/2017	8/26/2020
CHAMBER	Panashield	3M	N/A	3/15/2019	3/15/2021
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	08/28/18	08/28/2021
Software: Field Strength Program	Timco	N/A	Version 4.10.7.0	N/A	N/A
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	41534	9/1/2017	9/1/2020
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A
Coaxial Cable #103 - KMKM-0180-01 Aqua	Micro-Coax	UFB142A-0-0720-200200	225363-002 (#103)	4/12/2019	4/12/2021
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01 KMKM-0670-00 KFKF-0198-01	4/12/2019	4/12/2021
Band Reject Filter 2.4 GHz	Micro-Tronics	BRM50702-02	0	4/12/2019	4/12/2021
Pre-amp	RF-LAMBDA	RLNA00M45GA	N/A	2/27/2019	2/27/2021
Antenna: Double-Ridged Horn 18-40 GHz	EMCO	3116	9011-2145	12/8/2017	12/8/2020
Attenuator SMA 30dB 5W DC-18G	Pasternack	PE7013-30	#23	11/19/2017	11/19/2020



8 Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Units of measurement

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

8.1. Necessary bandwidth (Sound Broadcasting)

Requirement from Test procedures and guidance for measuring Licensed FM Broadcast Stations (TBC); FCC KDB 442401 and ANSI C63.26-2015.

Type of Emission: 406KF3E

$$B_n = 2M + 2DK$$

$$M = 3000$$

$$D = 200 \text{ KHz (Peak Deviation)}$$

$$K = 1$$

$$B_n = 2(3K) + 2(200K) (1) = 406K$$

Where:

$$M = 10 \text{ (Modulation Frequency, kHz)}$$

$$D = 75 \text{ (Peak Deviation, kHz)}$$

$$K = 1 \text{ (constant value)}$$



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8.2 RF Power Output

Requirement from FCC KDB 442401 and ANSI C63.26-2015.

Method of Measurement: RF power was measured by Indirect Method as described in the standard listed above.

Test Method:

$$\text{Transmitter output power} = E_p \times I_p \times F$$

Where:

E_p = DC input voltage of final radio stage.

I_p = Total DC input current of final radio stage.

F = Efficiency factor.

Test Data: RF Output Power

OUTPUT POWER: 3500 Watts

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

POWER SETTING INPUT POWER: (230.0V) (21.3) = 4899 Watts

8.3 Modulation characteristics

Limits from FCC Part 2.1047 (a) and test procedure from ANSI C63.26-2015

Setup

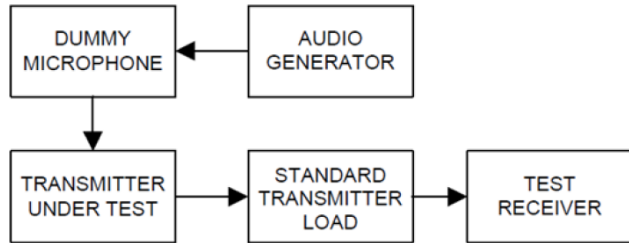
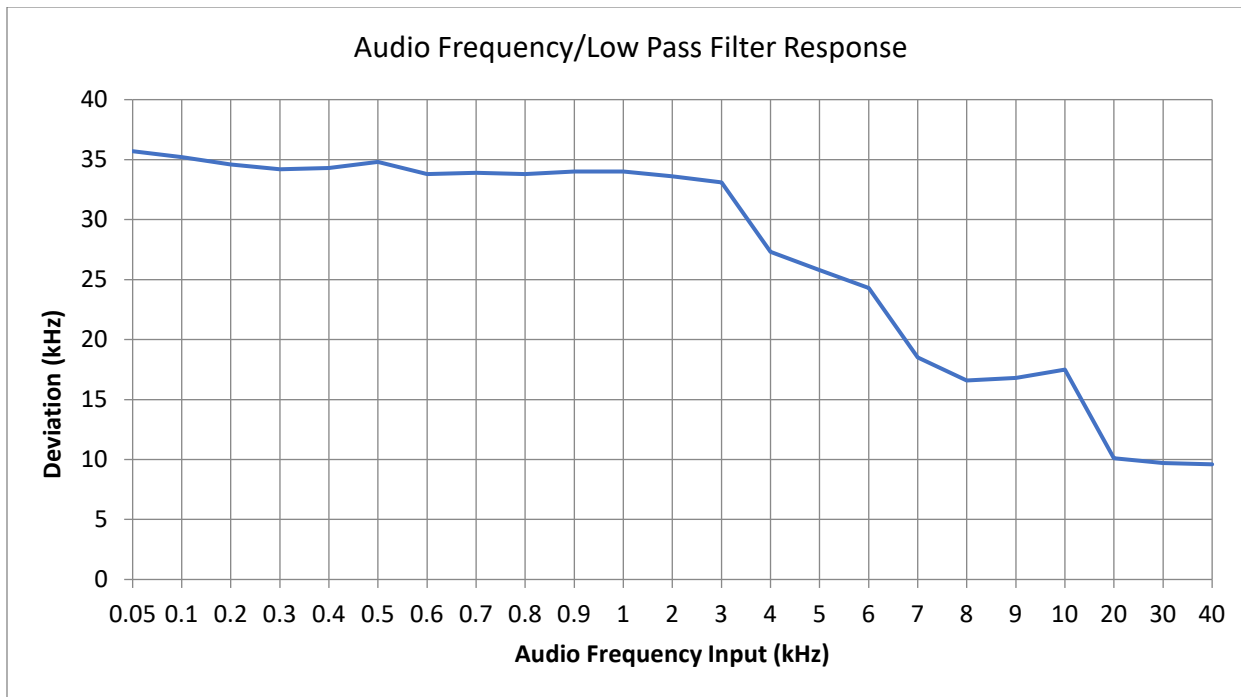


Figure 3—Equipment set-up audio frequency response (constant input)

Results



8.4 Modulation Limiting

Limits from FCC Part 2.1047 (b) and test procedure from ANSI C63.26-2015

Setup

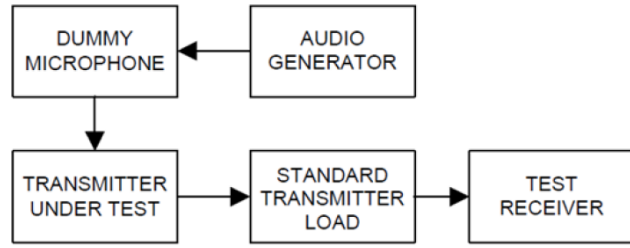
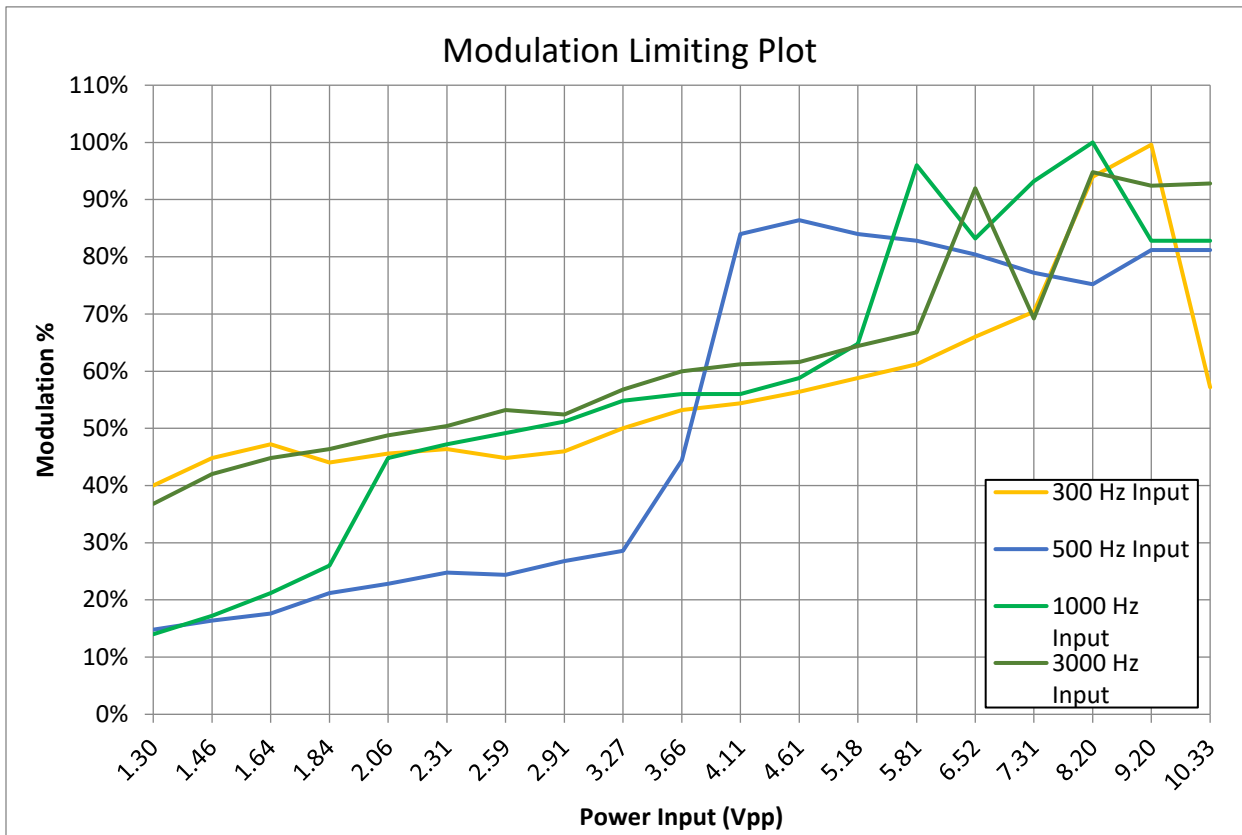


Figure 3—Equipment set-up audio frequency response (constant input)

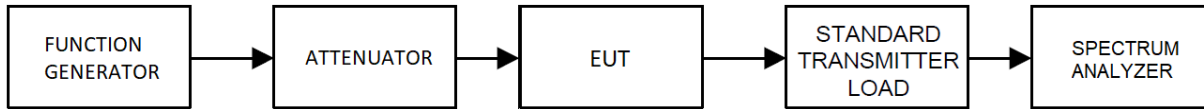
Test Data / Spectrum Plots



8.5 OCCUPIED BANDWIDTH & EMISSION MASK

Limits from FCC Part 2.1049 (e)(3) – (5), Part 73.317(b), (c) and test procedure from ANSI C63.26-2015

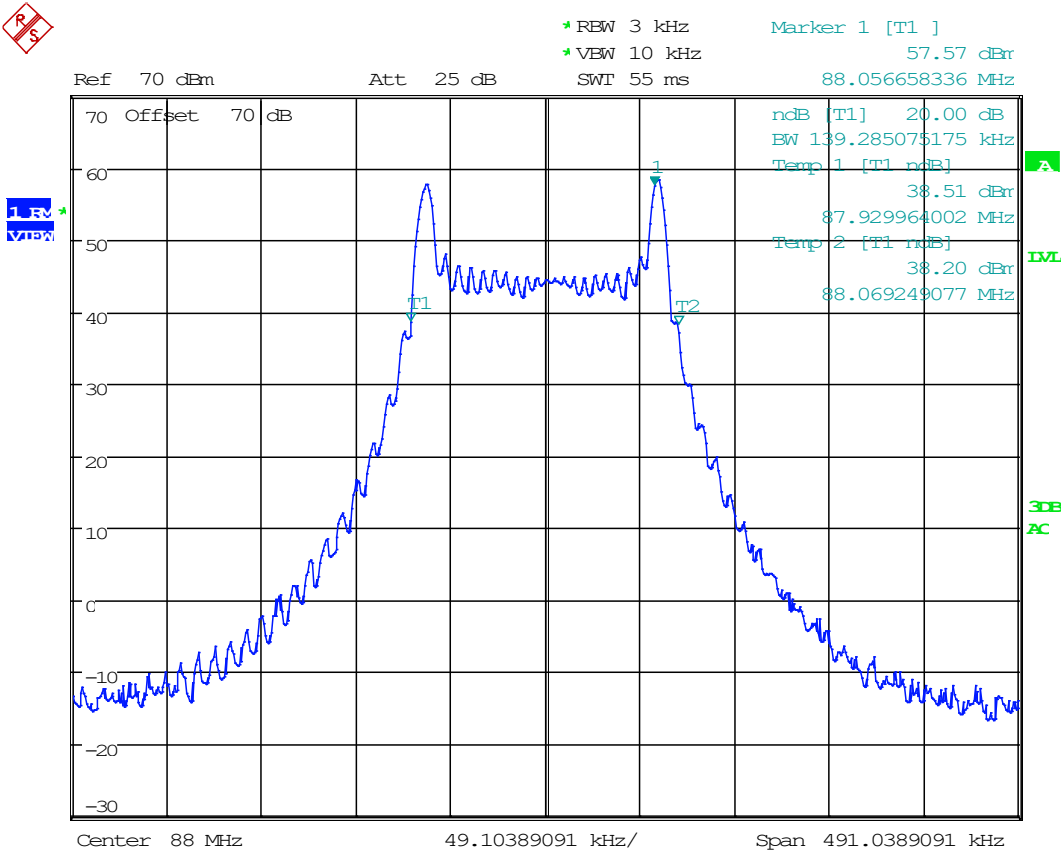
Setup



Test Data / Spectrum Plots

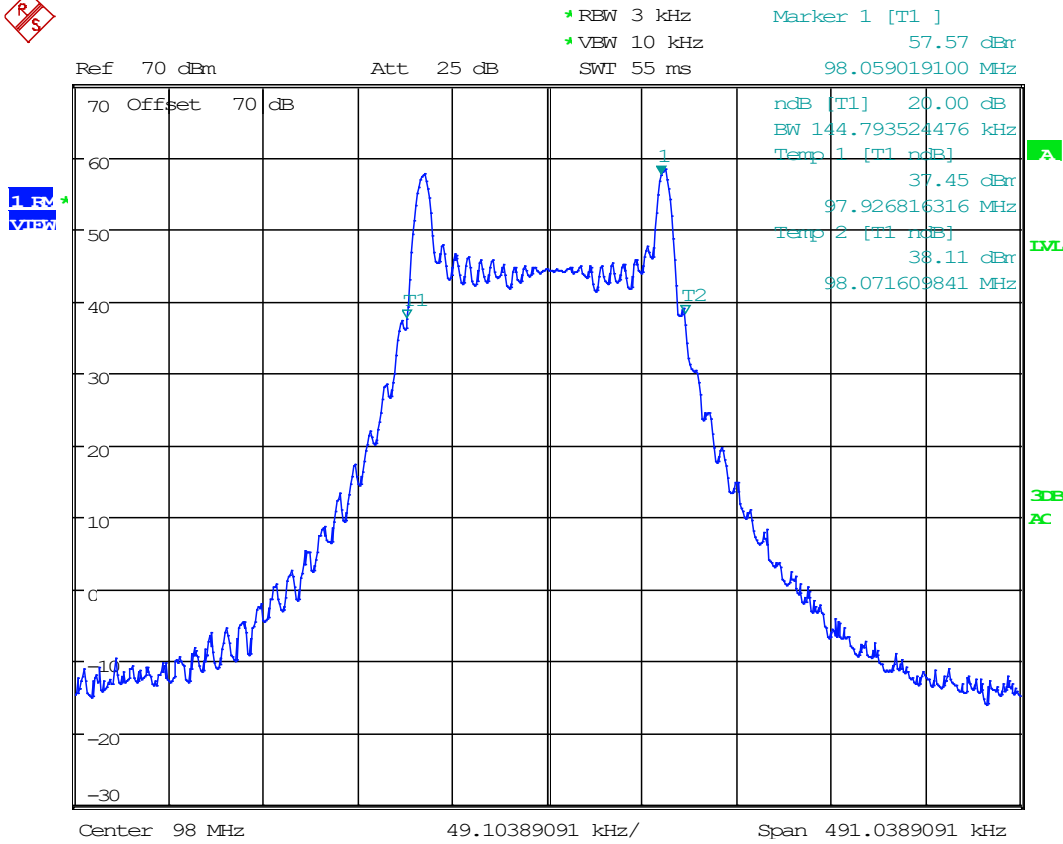
Frequency (MHz)	20dB OBW (kHz)
88	139.28
98	144.79
108	140.85

20dB OCCUPIED BANDWIDTH PLOT Low End of band



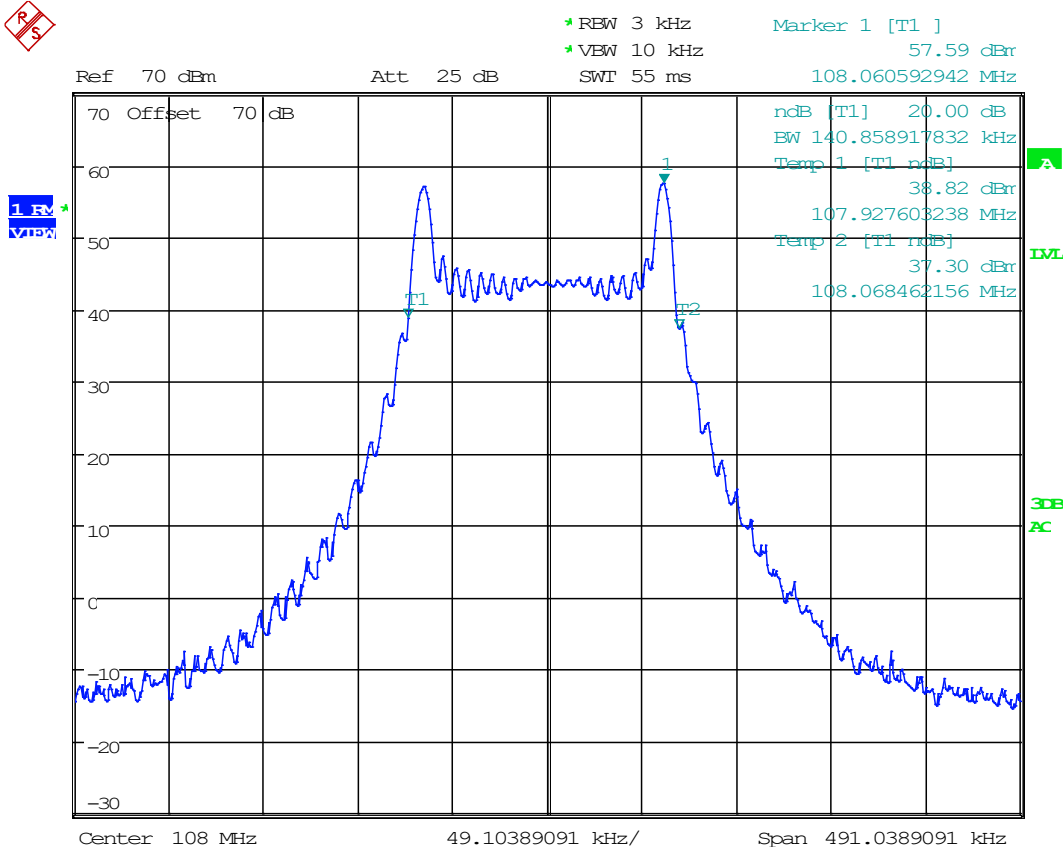
Date: 8.SEP.2020 13:24:37

20dB OCCUPIED BANDWIDTH PLOT Middle of band



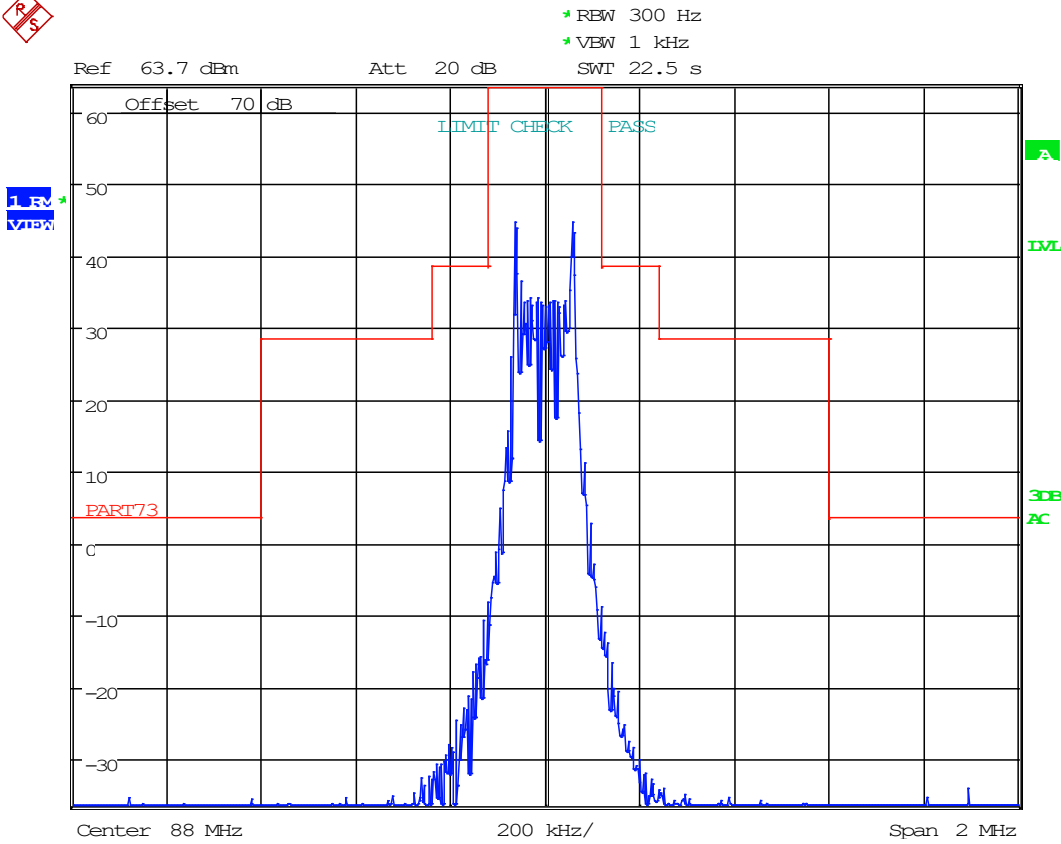
Date: 8.SEP.2020 13:26:09

20dB OCCUPIED BANDWIDTH PLOT High End of band



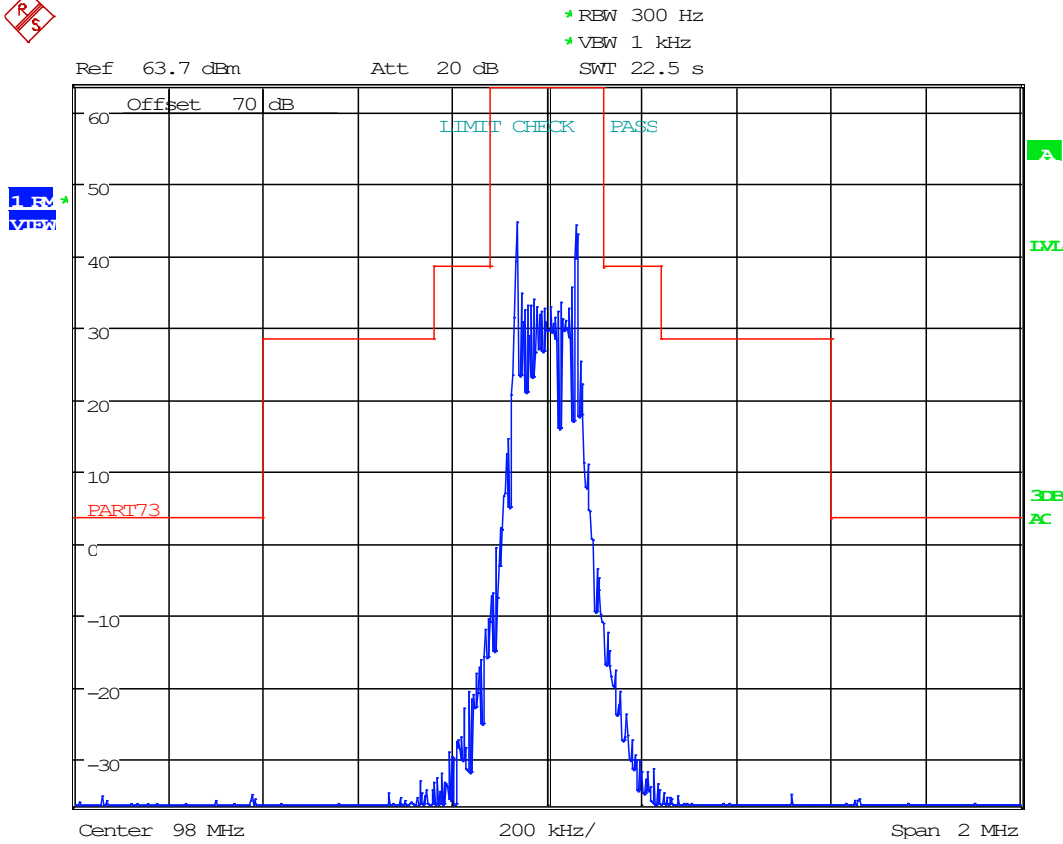
Date: 8.SEP.2020 13:27:03

EMISSION MASK PLOT Low End of band



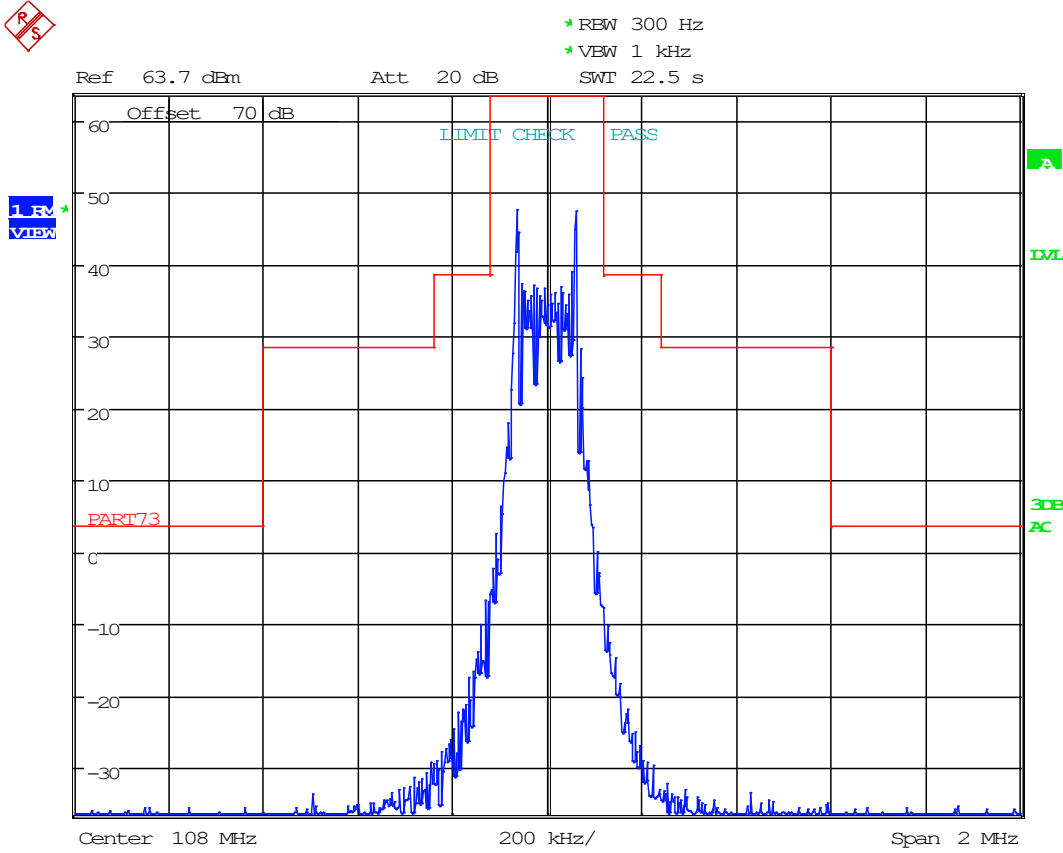
Date: 8.SEP.2020 13:32:28

EMISSION MASK PLOT Middle of band



Date: 8.SEP.2020 13:31:07

EMISSION MASK PLOT High End of band

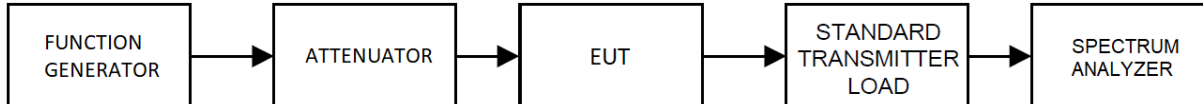


Date: 8.SEP.2020 13:29:59

8.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Limits from FCC Part 2.1051 & 73.317(d) and test procedure from ANSI C63.26-2015

Setup



Test Data: Low Frequency

	(dBm)	(Watts)	Limit (dBc)
Mean High Power (dBm)	65.44	3499.45	78.44

		High Power		
Frequency		Peak (dBm)	Margin (dB)	
(fundamental)		88.000	0.00	0.00
2nd Harmonic		176.000	-13.40	0.40
3rd Harmonic		264.000	-16.73	3.73
4th Harmonic	*	352.000	-16.30	3.30
5th Harmonic		440.000	-17.78	4.78
6th Harmonic		528.000	-18.04	5.04
7th Harmonic		616.000	-17.48	4.48
8th Harmonic	*	704.000	-17.75	4.75
9th Harmonic	*	792.000	-17.91	4.91
10th Harmonic	*	880.000	-16.67	3.67

* Indicates Noise Floor of Measurement



Test Data: Middle Frequency

	(dBm)	(Watts)	Limit (dBc)
Mean High Power (dBm)	65.44	3499.45	78.44

Frequency		Peak (dBm)	Margin (dB)
(fundamental)	98.000	0.00	0.00
2nd Harmonic	196.000	-13.45	0.45
3rd Harmonic	294.000	-16.00	3.00
4th Harmonic	* 392.000	-17.58	4.58
5th Harmonic	490.000	-17.78	4.78
6th Harmonic	* 588.000	-18.28	5.28
7th Harmonic	686.000	-17.08	4.08
8th Harmonic	* 784.000	-18.09	5.09
9th Harmonic	* 882.000	-15.60	2.60
10th Harmonic	* 980.000	-17.90	4.90

* Indicates Noise Floor of Measurement

Test Data: High Frequency

	(dBm)	(Watts)	Limit (dBc)
Mean High Power (dBm)	65.44	3499.45	78.44

Frequency		Peak (dBm)	Margin (dB)
(fundamental)	108.000	0.00	0.00
2nd Harmonic	216.000	-17.17	4.17
3rd Harmonic	324.000	-18.22	5.22
4th Harmonic	432.000	-19.80	6.80
5th Harmonic	* 540.000	-19.33	6.33
6th Harmonic	648.000	-18.15	5.15
7th Harmonic	* 756.000	-17.01	4.01
8th Harmonic	* 864.000	-19.30	6.30
9th Harmonic	* 972.000	-18.15	5.15
10th Harmonic	1080.000	-14.47	1.47

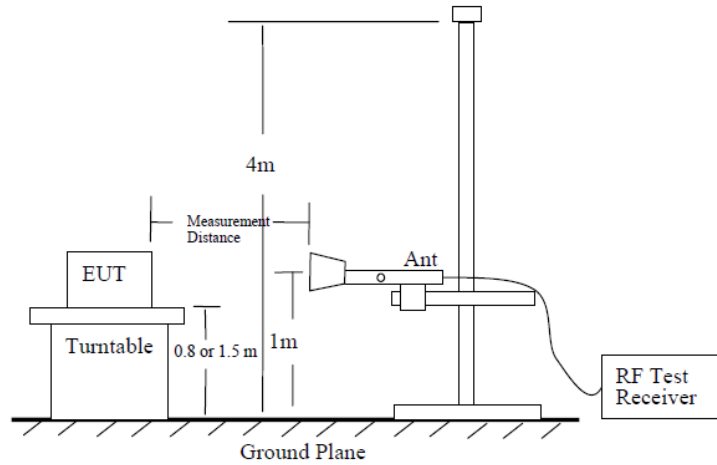
* Indicates Noise Floor of Measurement

8.7 FIELD STRENGTH OF SPURIOUS EMISSIONS

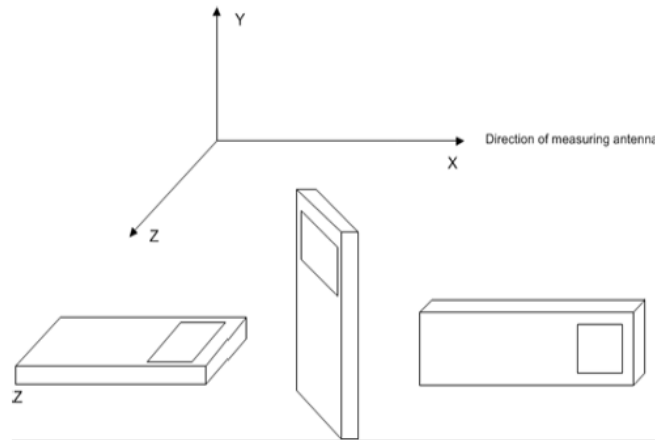
Limits from FCC Part 2.1051 & 73.317(d) and test procedure from ANSI C63.26-2015

Setup

Test Site Setup:



EUT Orientation(s):





FIELD STRENGTH OF SPURIOUS EMISSIONS

Test Data: Low Frequency

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
88.00	31.71	PK	36.62	V	0.64	13.14	3.00	50.40	-46.97	-13.00	33.97
88.00	41.50	PK	41.88	V	0.72	13.15	3.00	55.75	-41.63	-13.00	28.63
88.00	61.14	PK	44.28	V	0.92	7.16	3.00	52.36	-45.02	-13.00	32.02
88.00	65.00	PK	36.56	H	0.95	6.20	3.00	43.71	-53.67	-13.00	40.67
88.00	69.04	PK	48.62	V	0.98	5.90	3.00	55.51	-41.87	-13.00	28.87
88.00	176.00	PK	50.46	H	1.54	14.40	3.00	66.40	-30.97	-13.00	17.97
88.00	176.00	PK	42.53	V	1.54	14.40	3.00	58.47	-38.90	-13.00	25.90
88.00	264.00	PK	60.90	H	2.03	11.88	3.00	74.81	-22.56	-13.00	9.56
88.00	264.00	PK	54.47	V	2.03	11.88	3.00	68.38	-28.99	-13.00	15.99
88.00	352.00	PK	51.80	H	2.12	14.16	3.00	68.08	-29.30	-13.00	16.30
88.00	352.00	PK	63.70	V	2.12	14.16	3.00	79.98	-17.40	-13.00	4.40
88.00	440.00	PK	36.74	H	2.40	15.70	3.00	54.84	-42.54	-13.00	29.54
88.00	440.00	PK	49.73	V	2.40	15.70	3.00	67.83	-29.55	-13.00	16.55
88.00	528.00	PK	38.16	H	2.76	16.94	3.00	57.86	-39.52	-13.00	26.52
88.00	528.00	PK	42.27	V	2.76	16.94	3.00	61.97	-35.41	-13.00	22.41
88.00	616.00	PK	44.27	H	2.90	18.72	3.00	65.89	-31.49	-13.00	18.49
88.00	616.00	PK	52.21	V	2.90	18.72	3.00	73.83	-23.55	-13.00	10.55
88.00	704.00	PK	38.55	H	3.11	20.60	3.00	62.26	-35.12	-13.00	22.12
88.00	704.00	PK	47.16	V	3.11	20.60	3.00	70.87	-26.51	-13.00	13.51
88.00	792.00	PK	48.80	H	3.32	20.68	3.00	72.80	-24.58	-13.00	11.58
88.00	792.00	PK	36.21	V	3.32	20.68	3.00	60.21	-37.17	-13.00	24.17
88.00	880.00	PK	39.08	H	3.54	22.60	3.00	65.22	-32.16	-13.00	19.16
88.00	880.00	PK	43.83	V	3.54	22.60	3.00	69.97	-27.41	-13.00	14.41

Test Data: Middle Frequency

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBµV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
98.00	31.29	PK	37.10	V	0.64	13.06	3.00	50.80	-46.58	-13.00	33.58
98.00	40.55	PK	42.00	v	0.71	13.25	3.00	55.95	-41.43	-13.00	28.43
98.00	60.99	PK	43.85	V	0.92	7.20	3.00	51.97	-45.41	-13.00	32.41
98.00	68.61	PK	47.27	V	0.98	5.90	3.00	54.15	-43.23	-13.00	30.23
98.00	65.62	PK	37.77	H	0.95	6.14	3.00	44.86	-52.51	-13.00	39.51
98.00	196.00	PK	47.20	H	1.61	15.40	3.00	64.21	-33.17	-13.00	20.17
98.00	196.00	PK	49.50	V	1.61	15.40	3.00	66.51	-30.87	-13.00	17.87
98.00	294.00	PK	44.36	H	2.08	13.12	3.00	59.56	-37.82	-13.00	24.82
98.00	294.00	PK	62.89	V	2.08	13.12	3.00	78.09	-19.29	-13.00	6.29
98.00	392.00	PK	47.36	H	2.27	14.60	3.00	64.23	-33.15	-13.00	20.15
98.00	392.00	PK	58.17	V	2.27	14.60	3.00	75.04	-22.34	-13.00	9.34
98.00	490.00	PK	40.91	H	2.62	16.80	3.00	60.33	-37.05	-13.00	24.05
98.00	490.00	PK	34.27	V	2.62	16.80	3.00	53.69	-43.69	-13.00	30.69
98.00	588.00	PK	45.02	H	2.87	18.48	3.00	66.37	-31.01	-13.00	18.01
98.00	588.00	PK	51.41	V	2.87	18.48	3.00	72.76	-24.62	-13.00	11.62
98.00	686.00	PK	33.09	H	3.06	20.64	3.00	56.79	-40.59	-13.00	27.59
98.00	686.00	PK	40.46	V	3.06	20.64	3.00	64.16	-33.22	-13.00	20.22
98.00	784.00	PK	40.63	H	3.30	21.68	3.00	65.61	-31.76	-13.00	18.76
98.00	784.00	PK	37.94	V	3.30	21.68	3.00	62.92	-34.45	-13.00	21.45
98.00	882.00	PK	33.73	H	3.54	22.44	3.00	59.71	-37.66	-13.00	24.66
98.00	882.00	PK	36.58	V	3.54	22.44	3.00	62.56	-34.81	-13.00	21.81
98.00	980.00	PK	46.38	H	3.69	22.50	3.00	72.57	-24.81	-13.00	11.81
98.00	980.00	PK	47.53	V	3.69	22.50	3.00	73.72	-23.66	-13.00	10.66



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Test Data: High Frequency

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBm)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dBm)
108.00	31.29	PK	37.10	V	0.64	13.06	3.00	50.80	-46.58	-13.00	33.58
108.00	40.55	PK	42.00	v	0.71	13.25	3.00	55.95	-41.43	-13.00	28.43
108.00	60.99	PK	43.85	V	0.92	7.20	3.00	51.97	-45.41	-13.00	32.41
108.00	68.61	PK	47.27	V	0.98	5.90	3.00	54.15	-43.23	-13.00	30.23
108.00	216.00	PK	62.41	H	1.67	10.38	3.00	74.46	-22.92	-13.00	9.92
108.00	216.00	PK	66.98	V	1.67	10.38	3.00	79.03	-18.35	-13.00	5.35
108.00	324.00	PK	63.07	H	2.09	13.74	3.00	78.90	-18.48	-13.00	5.48
108.00	324.00	PK	62.98	V	2.09	13.74	3.00	78.81	-18.57	-13.00	5.57
108.00	432.00	PK	40.12	H	2.38	15.88	3.00	58.38	-38.99	-13.00	25.99
108.00	432.00	PK	46.23	V	2.38	15.88	3.00	64.49	-32.88	-13.00	19.88
108.00	540.00	PK	39.13	H	2.78	17.40	3.00	59.31	-38.07	-13.00	25.07
108.00	540.00	PK	47.57	V	2.78	17.40	3.00	67.75	-29.63	-13.00	16.63
108.00	648.00	PK	48.07	H	2.96	19.72	3.00	70.75	-26.63	-13.00	13.63
108.00	648.00	PK	47.09	V	2.96	19.72	3.00	69.77	-27.61	-13.00	14.61
108.00	756.00	PK	55.69	H	3.23	20.98	3.00	79.90	-17.48	-13.00	4.48
108.00	756.00	PK	35.03	V	3.23	20.98	3.00	59.24	-38.14	-13.00	25.14
108.00	864.00	PK	35.67	H	3.50	22.36	3.00	61.53	-35.85	-13.00	22.85
108.00	864.00	PK	34.88	V	3.50	22.36	3.00	60.74	-36.64	-13.00	23.64
108.00	972.00	PK	34.37	H	3.66	22.72	3.00	60.75	-36.63	-13.00	23.63
108.00	972.00	PK	42.36	V	3.66	22.72	3.00	68.74	-28.64	-13.00	15.64
108.00	1080.00	PK	37.92	H	3.82	27.00	3.00	68.75	-28.63	-13.00	15.63
108.00	1080.00	PK	40.15	V	3.82	27.00	3.00	70.98	-26.40	-13.00	13.40

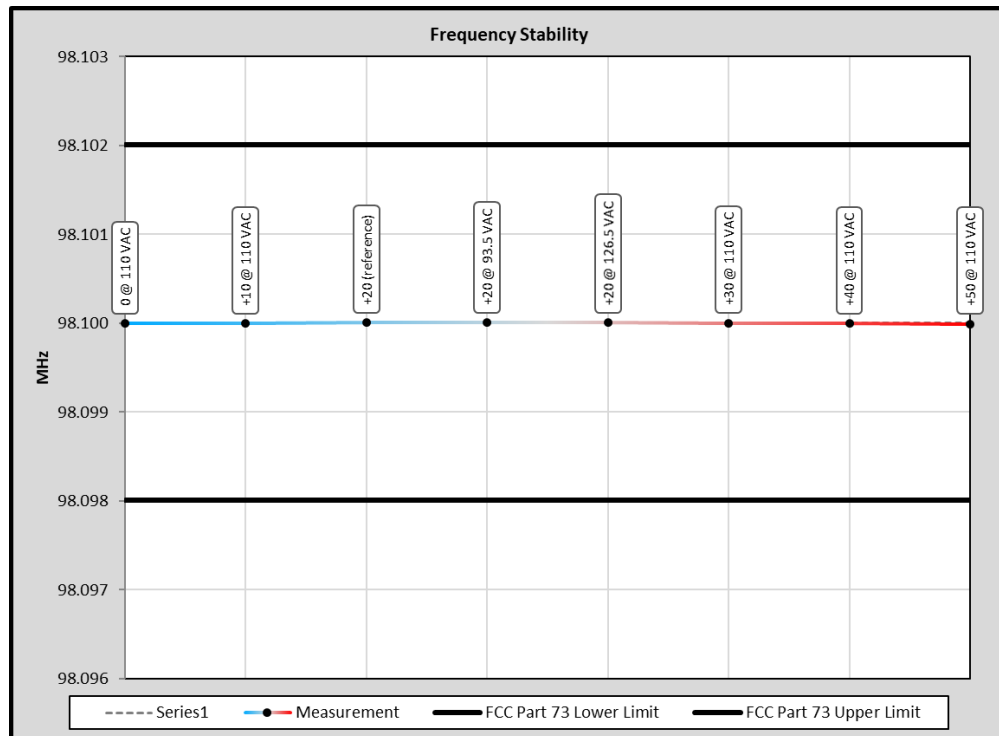
8.8 FREQUENCY STABILITY

Limits from FCC Part 2.1055(a)(3), Part 73.1545(b) and test procedure from ANSI C63.26-2015

Test Data: FCC Frequency Stability Table

FCC Part 73 Limit	2	+/- kHz	
FCC Part 73 Lower Limit	98.098008	MHz	
FCC Part 73 Upper Limit	98.102008	MHz	
Rated Supply Voltage	110.0	<input checked="" type="radio"/> AC <input type="radio"/> DC	
Temperature / Voltage Variation			
Temperature (°C)	Supplied Voltage (V)	Frequency (MHz)	Deviation (kHz)
0	110.0	98.099995	0.013
+10	110.0	98.099997	0.011
+20 (reference)	110.0	98.100008	0.000
+20	93.5	98.100008	0.000
+20	126.5	98.100008	0.000
+30	110.0	98.100004	0.004
+40	110.0	98.099996	0.012
+50	110.0	98.099991	0.017

Test Data: FCC Frequency Stability Plot





9 ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT Are in a separate supplementary ANNEX-A document.

10 ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

11 History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_3285-20_FCC_PART73_1	1	Initial release	September 16, 2020
TR_3285-20_FCC_PART73_2	2	Clerical Update Page 7	October 20, 2020



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END of Test Report
