

# FCC Test Report

Report No.: AGC02931201208FE10

**FCC ID** : 2AWYH-M2RB  
**PRODUCT DESIGNATION** : Mobile Radio  
**BRAND NAME** : Rugged Radios  
**MODEL NAME** : M1-G, M1  
**APPLICANT** : Rugged Radios  
**DATE OF ISSUE** : Jan. 25, 2021  
**STANDARD(S)** : FCC Part 90 Rules  
FCC Part 22 Rules  
**REPORT VERSION** : V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 25, 2021	Valid	Initial Release

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## 1. GENERAL INFORMATION

Applicant	Rugged Radios
Address	951 E Grand Ave, Arroyo Grande, CA 93420
Manufacturer	Rugged Radios
Address	951 E Grand Ave, Arroyo Grande, CA 93420
Factory	Rugged Radios
Address	951 E Grand Ave, Arroyo Grande, CA 93420
Product Designation	Mobile Radio
Brand Name	Rugged Radios
Test Model:	M1-G,
Series Model	M1
Difference Description	M1-G supports GPS, M1 without GPS
Deviation from Standard	None
Date of Receipt	Dec. 28, 2020
Date of Test	Dec. 28, 2020~Jan. 25, 2021
Test Result	Pass

### WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22 and 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Donjon Huang  
(Project Engineer)

Jan. 25, 2021

Reviewed By



Calvin Liu  
(Reviewer)

Jan. 25, 2021

Approved By



Forrest Lei  
Authorized Officer

Jan. 25, 2021

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## 2.PRODUCT INFORMATION

### 2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	V4A-201111	
Software Version	V1.35	
Power Supply	DC 13.8V	
Communication Type	Voice / Data	
Operation Frequency Range	From 136MHz to 174MHz--VHF	
Modulation Type	Analog Voice:	FM
	Digital Voice/Digital Data:	4FSK
Digital Type	DMR	
Channel Separation	Analog Voice:	12.5 kHz
	Digital Voice/Digital Data:	12.5 kHz
Support Data Rate	9600bps	
Emission Designator	Analog Voice:	<input checked="" type="checkbox"/> VHF:10K0F3E-5W-12.5kHz <input checked="" type="checkbox"/> VHF:10K0F3E-25W-12.5kHz <input checked="" type="checkbox"/> VHF:10K0F3E-55W-12.5kHz
	Digital Voice/Digital Data:	<input checked="" type="checkbox"/> VHF:7K71F1D-5W-12.5kHz <input checked="" type="checkbox"/> VHF:7K71F1D-25W-12.5kHz <input checked="" type="checkbox"/> VHF:7K71F1D-55W-12.5kHz <input checked="" type="checkbox"/> VHF:7K83F1W-5W-12.5kHz <input checked="" type="checkbox"/> VHF:7K83F1W-25W-12.5kHz <input checked="" type="checkbox"/> VHF:7K83F1W-55W-12.5kHz
Rated Output Power	VHF:5W/25W/55W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	VHF: 36.38dBm(5W-12.5kHz)-Analog	VHF:43.67dBm(25W-12.5kHz) -Analog
	VHF: 47.14dBm(55W-12.5kHz) -Analog	VHF:36.16dBm(5W-12.5kHz)-Digital
	VHF:43.58dBm(25W-12.5kHz) - Digital	VHF: 47.07dBm(55W-12.5kHz)-Digital
Antenna Designation	Detachable	
Antenna type	External antenna	
Antenna Gain	0dBi	

#### Note:

1. The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.
2. This equipment is capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth. DMR interphone's bandwidth is 12.5 kHz, and it has a double time slot, one is the speech time slot, one is the data time slot, just language sequence is satisfied with 4800 bps/6.25 kHz BW.

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## 2.2 TEST FREQUENCY LIST

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
Analog/ Digital	12.5 kHz	136-174MHz	Bottom	136.025 MHz
	12.5 kHz	136-174MHz	Middle	151.850 MHz
	12.5 kHz	136-174MHz	Middle	155.025 MHz
	12.5 kHz	136-174MHz	Middle	161.610 MHz
	12.5 kHz	136-174MHz	Top	173.975 MHz

### Note:

In section KDB 634817 D01 Sections II) (f) (1) and (2):

Test at least one frequency in each band for each rule part applied under and ensure the device is capable of operating on the frequency under each rule part. This requirement may result in testing on multiple frequencies. Testing on one frequency may be acceptable if multiple listed bands for a rule part with a continuous frequency range are split to remove a conflict with other rules and the technical requirements in the split bands are the same. Additional requirements for RF exposure may apply.

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## 2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **2AWYH-M2RB**, filing to comply with Part 2, Part 22, and Part 90 of the Federal Communication Commission rules.

## 2.4 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 22	Public Mobile Services
2	FCC 47 CFR Part 90	Private Land Mobile Radio Services
3	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
4	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
6	KDB 579009 D03	KDB 579009 D03 Applications Part 90 Refarming Bands v01
7	KDB 634817 D01	KDB 634817 D01 Freq Range Listing for Grants v04r01

## 2.5 CALCULATION OF EMISSION INDICATORS

FCC Rules and Regulations Part 2.202: Necessary Bandwidth and Emission Bandwidth

### For FM Mode (ChannelSpacing: 12.5kHz)

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

### For FM Mode (Channel Spacing: 25kHz)

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 5.0 \text{ kHz}) = 16 \text{ kHz} = 16K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 25 kHz channel spacing FM mode is 16K0F3E.

### For Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1W

The 99% energy rule was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz.

F1D and F1W portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1W.

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## 2.6 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

## 2.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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### 3. TEST ENVIRONMENT

#### 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### 3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L5488**

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No.: 5054.02**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **FCC-Registration No.: 975832**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

##### **IC-Registration No.: 24842**

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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### 3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 13.8V	HV:15.87V/ LV:11.73V
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

### 3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Test Items	Measurement Uncertainty
Frequency stability	$\pm 0.5\%$
Transmitter power conducted	$\pm 0.8\text{dB}$
Transmitter power Radiated	$\pm 1.3\text{dB}$
Conducted spurious emission 9kHz-40 GHz	$\pm 2.7\text{dB}$
Conducted Emission	$\pm 3.2\text{ dB}$
Radiated Emission below 1GHz	$\pm 3.9\text{ dB}$
Radiated Emission above 1GHz	$\pm 4.8\text{ dB}$
Occupied Channel Bandwidth	$\pm 2\%$
FM deviation	$\pm 2\%$
Audio level	$\pm 0.98\text{dB}$
Low Pass Filter Response	$\pm 0.65\text{dB}$
Modulation Limiting	0.42 %
Transient Frequency Behavior	6.8 %

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### 3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9020A	W1312-60196	Aug. 21, 2020	Aug. 20, 2021
EXA Signal Analyzer	Aglient	N9020A	MY52090123	Sep. 03, 2020	Sep. 02, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.16, 2019	Sep.15, 2021
preamplifier	ChengYi	EMC184045SE	980508	Sep. 23, 2019	Sep. 22, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 09, 2020	Jun. 08, 2021
HORN ANTENNA	EM	EM-AH-10180	/	Feb.28, 2020	Feb.27, 2021
SIGNAL GENERATOR	AGILENT	E4421B	MY43351603	Jun. 08, 2020	Jun. 07, 2021
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 09, 2020	Jun. 08, 2021
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 09, 2019	Jan. 08, 2021
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 11, 2020	Jun. 10, 2021
Modulation Domain Analyzer	HP	53310A	3121A02467	Aug. 26, 2020	Aug. 25, 2021
Small environmental tester	ESPEC	SH-242	--	Sep. 03, 2020	Sep. 02, 2022
RF Communication Test Set	HP	8920B	--	Jun. 09, 2020	Jun. 08, 2021
Attenuator	Weinachel Corp	58-30-33	ML030	Oct. 26, 2020	Oct. 25, 2021
RF Cable	R&S	1#	--	Each time	N/A
RF Cable	R&S	2#	--	Each time	N/A
Fliter-VHF	Microwave	N26460M1	498703	May 11, 2020	May 10, 2021

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#### 4.SYSTEM TEST CONFIGURATION

##### 4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

##### 4.2 EUT EXERCISE

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

##### 4.3 CONFIGURATION OF TESTED SYSTEM

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

##### 4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- ☐ Test Accessories Come From The Laboratory  
☒ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	Mobile Radio	M1	FCC ID: 2AWYH-M2RB	EUT
2	Hand microphone	N/A	N/A	Accessories

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#### 4.5 SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC 47 CFR PART 90/22	Antenna Equipment	Pass
2	§90.205&22.565& 2.1046	Maximum Transmitter Power	Pass
3	§90.207& 2.1047	Modulation Characteristic	Pass
4	§2.1047&90.242(b)(8)	Audio Low Pass Filter Response	Pass
5	§90.209& 22.359& 2.1049	Occupied Bandwidth	Pass
6	§90.210& 22.359& 2.1049	Emission Mask	Pass
7	§90.213& 22.355& 2.1055	Frequency Tolerance	Pass
8	§90.214	Transmitter Frequency Behavior	Pass
9	§90.210&22.359& 2.1051	Spurious Emission on Antenna Port	Pass
10	§90.210&22.359& 2.1053	Spurious Radiated Emission	Pass

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## 5.DESCRPTION OF TEST MODES

The EUT (**Two-way radio**) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

NO.	TEST MODE DESCRIPTION	CHANNEL SEPARATION
1	TX Bottom channel-VHF	12.5 kHz
2	TX Middle channel-VHF	12.5 kHz
3	TX Middle channel-VHF	12.5 kHz
4	TX Middle channel-VHF	12.5 kHz
5	TX Top channel-VHF	12.5 kHz

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
5. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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## 6.FREQUENCY TOLERANCE

### 6.1 PROVISIONS APPLICABLE

- According to FCC §2.1055, § 22.355 and §90.213, the frequency stability shall be measured with variation of ambient temperature from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  centigrade.
- According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.
- According to FCC Part 90 Section 90.213, the frequency tolerance must be maintained within 0.00025% for 12.5 kHz channel separation and 0.0001% for 6.25 kHz channel separation.

### 6.2 MEASUREMENT PROCEDURE

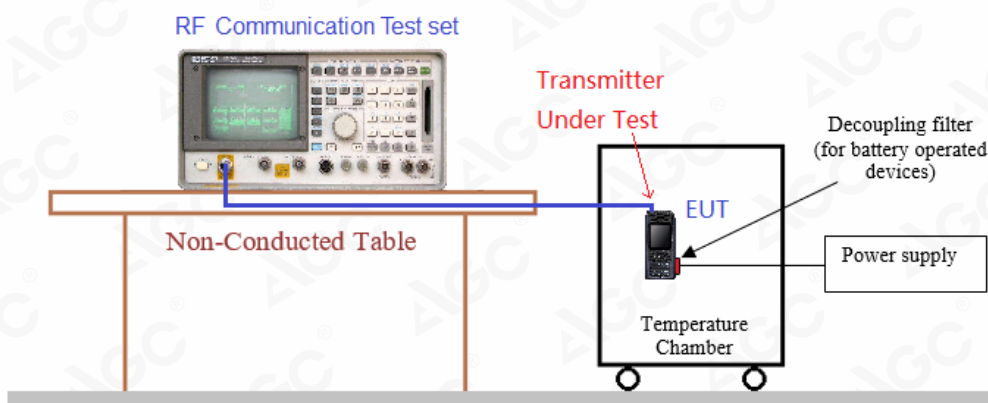
#### 6.2.1 Frequency stability versus environmental temperature

- Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
- Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1kHz and Video Resolution Bandwidth to 1kHz and Frequency Span to 50kHz. Record this frequency as reference frequency.
- Set the temperature of chamber to  $50^{\circ}\text{C}$ . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- Repeat step 2 with a  $10^{\circ}\text{C}$  decreased per stage until the lowest temperature  $-30^{\circ}\text{C}$  is measured, record all measured frequencies on each temperature step.

#### 6.2.2 Frequency stability versus input voltage

- Setup the configuration per figure 1 for frequencies measured at temperature if it is within  $15^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ . Otherwise, an environment chamber set for a temperature of  $20^{\circ}\text{C}$  shall be used. The EUT shall be powered by DC 13.8V.
- Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 kHz and Video Resolution Bandwidth to 1kHz. Record this frequency as reference frequency.
- Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

### 6.3 MEASUREMENT SETUP



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#### 6.4 MEASUREMENT RESULTS

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF-5W								
Test conditions		Frequency error (ppm)					Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	151.850	155.025	161.610	173.975		
13.80	-30	0.723	0.653	0.803	0.802	0.763	2.5	Pass
	-20	0.727	0.846	1.061	0.605	0.792		
	-10	0.736	0.543	1.034	0.763	0.841		
	0	0.501	0.670	0.795	0.760	0.786		
	10	0.546	0.893	0.548	0.800	0.976		
	20	1.021	0.559	0.938	0.912	0.329		
	30	0.512	0.712	0.807	0.708	0.859		
	40	0.889	0.823	0.719	0.860	0.516		
	50	1.075	0.864	0.894	0.559	0.915		
15.87	20	0.723	0.653	0.803	0.802	0.763	2.5	Pass
11.73	20	0.727	0.846	1.061	0.605	0.792		

12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-5W								
Test conditions		Frequency error (ppm)					Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	151.850	155.025	161.610	173.975		
13.80	-30	0.545	0.697	0.552	0.593	0.763	2.5	Pass
	-20	0.522	0.986	0.874	0.482	0.363		
	-10	0.823	0.829	1.054	0.487	0.848		
	0	0.769	0.764	0.948	0.639	0.825		
	10	0.874	0.716	0.779	0.941	0.571		
	20	1.090	1.066	0.537	0.717	0.913		
	30	0.696	0.742	0.647	0.315	0.891		
	40	0.744	0.603	0.551	0.644	0.456		
	50	0.771	0.992	0.794	0.822	0.505		
15.87	20	0.545	0.697	0.552	0.593	0.763		
11.73	20	0.522	0.986	0.874	0.482	0.363		

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12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF-25W								
Test conditions		Frequency error (ppm)					Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	151.850	155.025	161.610	173.975		
13.80	-30	0.889	0.822	0.606	0.607	0.954	2.5	Pass
	-20	0.824	0.920	0.971	0.350	0.304		
	-10	0.890	0.752	1.039	0.990	0.360		
	0	1.071	1.048	0.863	0.936	0.696		
	10	0.744	0.653	0.527	0.332	0.840		
	20	0.762	1.083	1.019	0.501	0.528		
	30	0.767	0.715	0.683	0.639	0.607		
	40	0.775	1.036	1.036	0.446	0.504		
	50	0.568	0.998	0.787	0.837	0.759		
15.87	20	0.889	0.822	0.606	0.607	0.954		
11.73	20	0.824	0.920	0.971	0.350	0.304		

12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-25W								
Test conditions		Frequency error (ppm)					Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	151.850	155.025	161.610	173.975		
13.80	-30	0.765	0.828	0.824	0.456	0.653	2.5	Pass
	-20	0.649	0.626	0.850	0.521	0.552		
	-10	0.702	0.725	0.530	0.641	0.879		
	0	1.014	0.939	0.590	0.705	0.955		
	10	0.557	0.983	0.879	0.889	0.570		
	20	0.822	0.866	1.015	0.612	0.979		
	30	0.521	1.080	0.761	0.568	0.833		
	40	0.926	0.564	0.910	0.835	0.637		
	50	0.977	0.661	0.839	0.738	1.071		
15.87	20	0.765	0.828	0.824	0.456	0.653		
11.73	20	0.649	0.626	0.850	0.521	0.552		

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12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF-55W								
Test conditions		Frequency error (ppm)					Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	151.850	155.025	161.610	173.975		
13.80	-30	0.734	1.068	1.003	0.870	0.363	2.5	Pass
	-20	1.015	0.955	1.036	0.687	0.386		
	-10	1.042	0.604	0.563	0.312	0.784		
	0	0.759	0.803	0.524	0.862	0.490		
	10	0.658	0.762	0.521	0.782	0.843		
	20	0.786	1.036	0.946	0.866	0.798		
	30	0.641	0.937	0.540	0.903	0.877		
	40	0.638	0.932	0.969	0.851	0.452		
	50	0.563	0.744	0.642	0.399	0.564		
15.87	20	0.734	1.068	1.003	0.870	0.363		
11.73	20	1.015	0.955	1.036	0.687	0.386		

12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-55W								
Test conditions		Frequency error (ppm)					Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	151.850	155.025	161.610	173.975		
13.80	-30	1.008	1.022	0.611	0.456	0.653	2.5	Pass
	-20	0.773	0.886	0.509	0.521	0.552		
	-10	0.636	0.996	0.834	0.641	0.879		
	0	0.986	0.614	0.893	0.705	0.955		
	10	1.059	0.549	1.062	0.889	0.570		
	20	0.870	0.901	0.968	0.612	0.979		
	30	0.626	0.956	0.757	0.568	0.833		
	40	0.963	1.045	0.735	0.835	0.637		
	50	0.956	0.767	0.925	0.738	1.071		
15.87	20	1.008	1.022	0.611	0.456	0.653		
11.73	20	0.773	0.886	0.509	0.521	0.552		

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## 7. EMISSION BANDWIDTH

### 7.1 PROVISIONS APPLICABLE

FCC Part 90.209 & FCC Part 22.359& FCC Part 2.1049:

The authorized bandwidth shall be 11.25 kHz for 12.5 kHz channel separation and 6 kHz for 6.25 kHz channel separation.

### 7.2 MEASUREMENT PROCEDURE

1.The EUT was modulated by 2.5kHz sine wave audio signal; the level of the audio signal employed is 16dB greater than that necessary to produce 50% of rated system deviation.

Rated system deviation is 2.5 kHz for 12.5kHz channel spacing).

2.Spectrum set as follow:

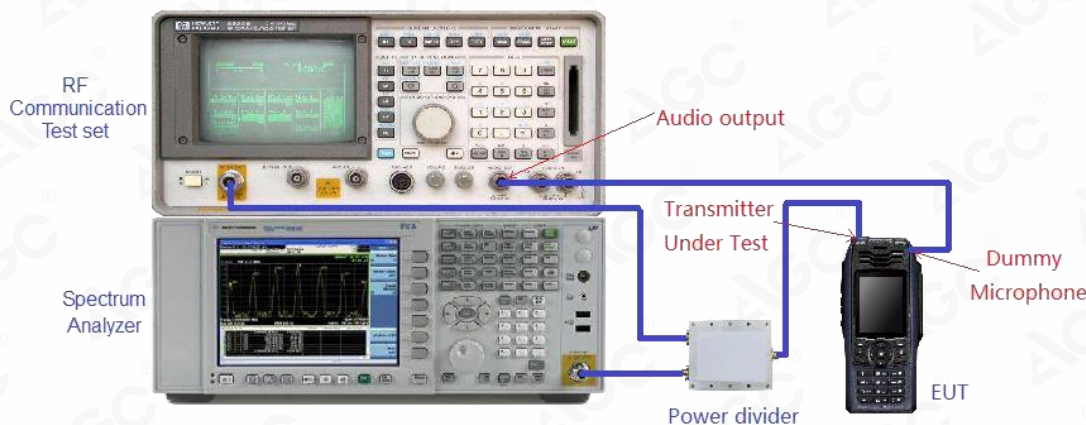
Centre frequency = fundamental frequency, span=50kHz for 12.5kHz channel spacing, RBW=100Hz, VBW=300Hz, Sweep = auto,

Detector function = peak, Trace = max hold

3.Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.

4.Measure and record the results in the test report.

### 7.3 MEASUREMENT SETUP



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#### 7.4 MEASUREMENT RESULTS

Measurement Result of VHF-Analog Modulation-5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.921 kHz	10.16 kHz	11.25 kHz	Pass
151.850MHz	9.907 kHz	10.16 kHz	11.25 kHz	Pass
155.025MHz	9.904 kHz	10.16 kHz	11.25 kHz	Pass
161.610MHz	9.913 kHz	10.17 kHz	11.25 kHz	Pass
173.975MHz	9.894 kHz	10.16 kHz	11.25 kHz	Pass

Measurement Result of VHF-Analog Modulation-25W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.920 kHz	10.16 kHz	11.25 kHz	Pass
151.850MHz	9.911 kHz	10.16 kHz	11.25 kHz	Pass
155.025MHz	9.906 kHz	10.16 kHz	11.25 kHz	Pass
161.610MHz	9.919 kHz	10.16 kHz	11.25 kHz	Pass
173.975MHz	9.893 kHz	10.16 kHz	11.25 kHz	Pass

Measurement Result of VHF-Analog Modulation-55W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.920 kHz	10.17 kHz	11.25 kHz	Pass
151.850MHz	9.905 kHz	10.17 kHz	11.25 kHz	Pass
155.025MHz	9.904 kHz	10.16 kHz	11.25 kHz	Pass
161.610MHz	9.917 kHz	10.16 kHz	11.25 kHz	Pass
173.975MHz	9.901 kHz	10.16 kHz	11.25 kHz	Pass

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Measurement Result of VHF-Digital Modulation-5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	7.635 kHz	10.20 kHz	11.25 kHz	Pass
151.850MHz	7.522 kHz	10.17 kHz	11.25 kHz	Pass
155.025MHz	7.470 kHz	9.70 kHz	11.25 kHz	Pass
161.610MHz	7.727 kHz	10.23 kHz	11.25 kHz	Pass
173.975MHz	7.793 kHz	9.88 kHz	11.25 kHz	Pass

Measurement Result of VHF-Digital Modulation-25W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	7.677 kHz	9.981 kHz	11.25 kHz	Pass
151.850MHz	7.711 kHz	9.667 kHz	11.25 kHz	Pass
155.025MHz	7.544 kHz	9.883 kHz	11.25 kHz	Pass
161.610MHz	7.652 kHz	10.24 kHz	11.25 kHz	Pass
173.975MHz	7.836 kHz	10.20 kHz	11.25 kHz	Pass

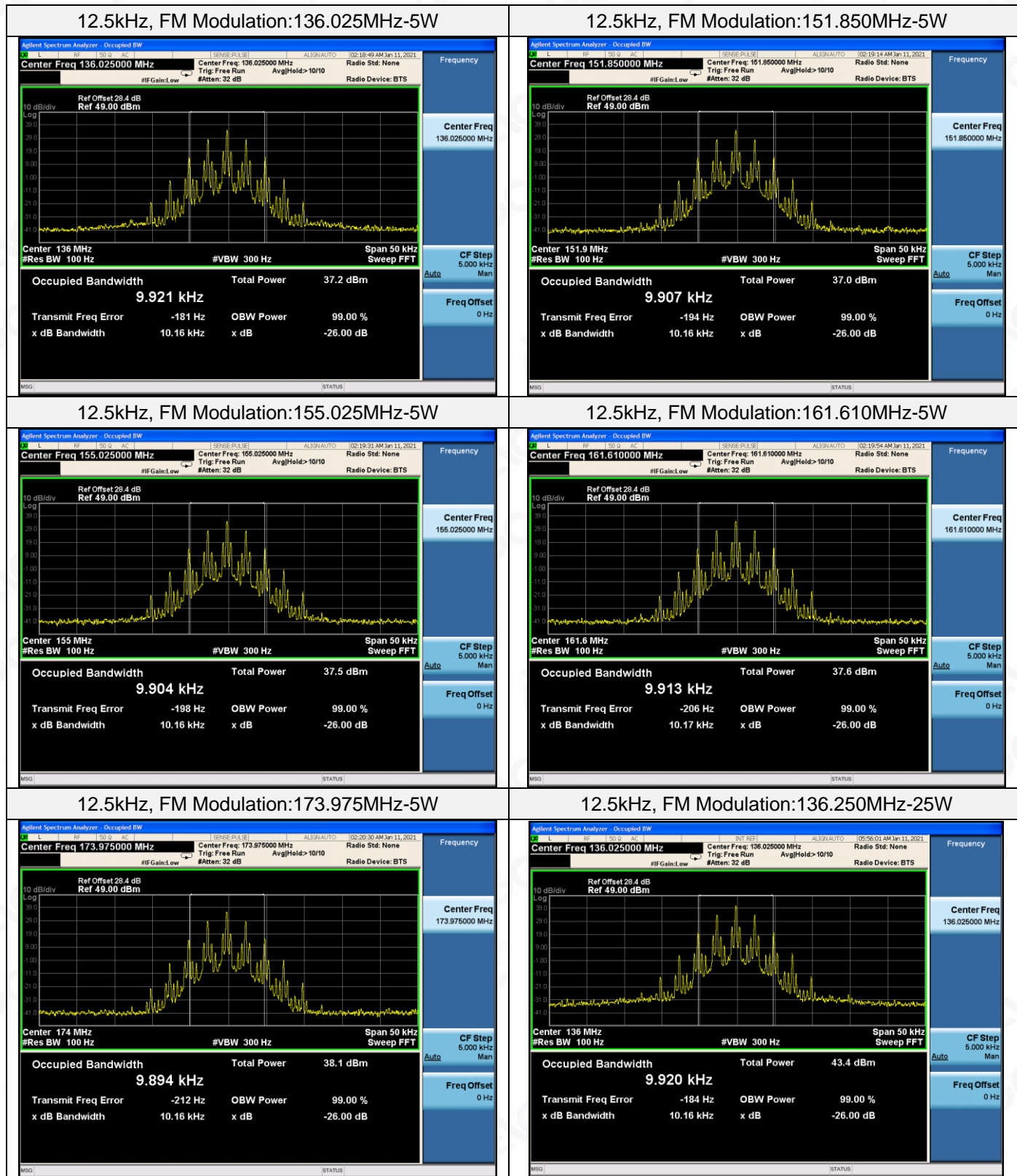
Measurement Result of VHF-Digital Modulation-55W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	7.550 kHz	9.971 kHz	11.25 kHz	Pass
151.850MHz	7.711 kHz	9.880 kHz	11.25 kHz	Pass
155.025MHz	7.347 kHz	9.408 kHz	11.25 kHz	Pass
161.610MHz	7.462 kHz	9.655 kHz	11.25 kHz	Pass
173.975MHz	7.467 kHz	9.858 kHz	11.25 kHz	Pass

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Test plot as follows:



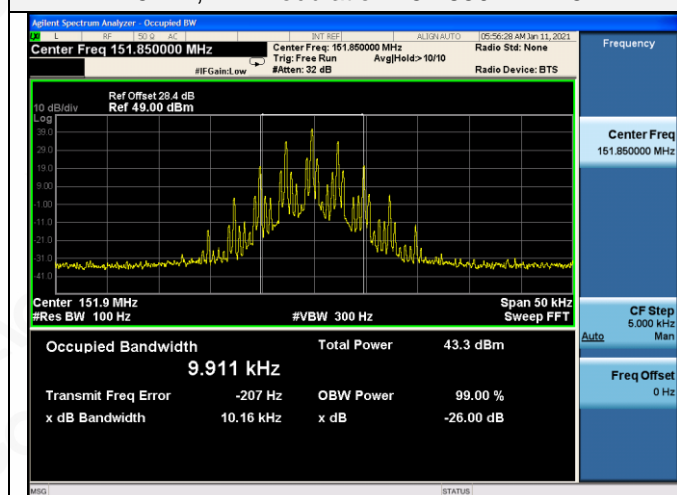
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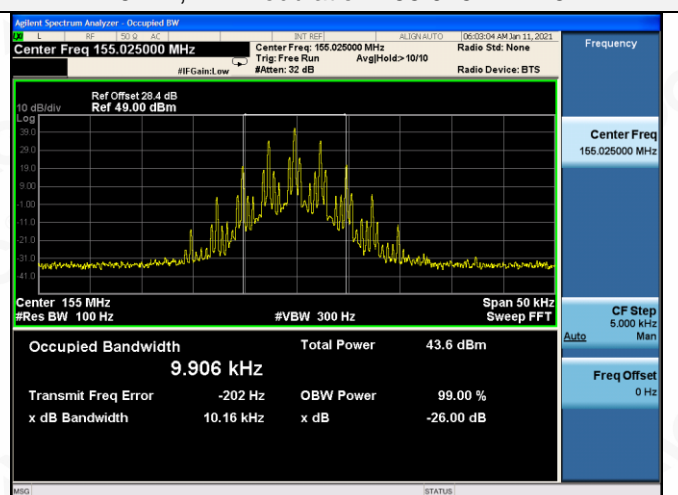




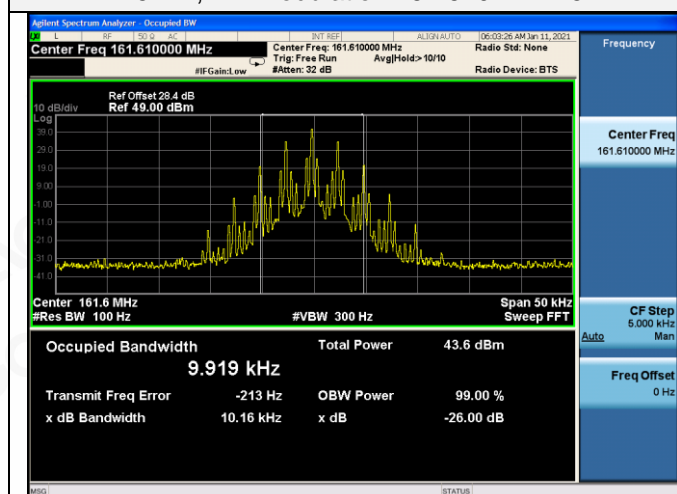
12.5kHz, FM Modulation:151.850MHz-25W



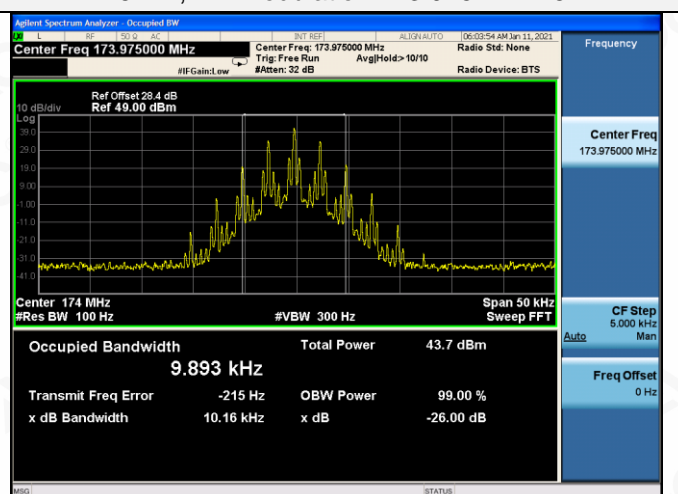
12.5kHz, FM Modulation:155.025MHz-25W



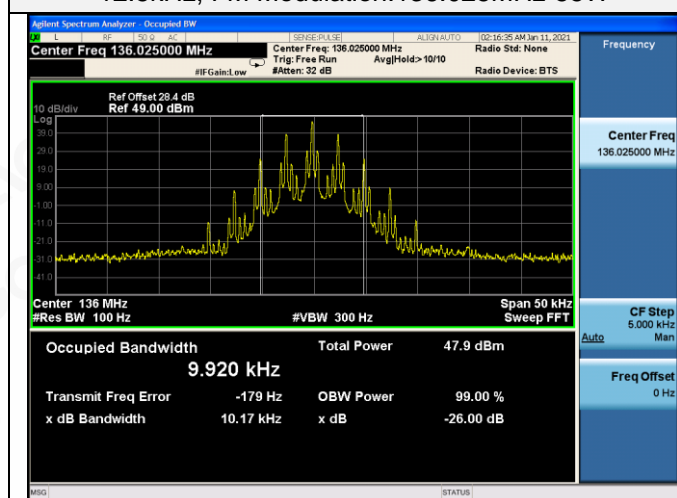
12.5kHz, FM Modulation:161.610MHz-25W



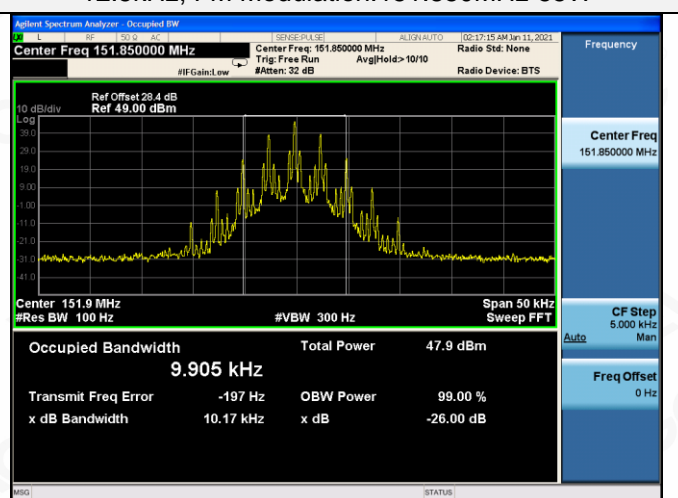
12.5kHz, FM Modulation:173.975MHz-25W



12.5kHz, FM Modulation:136.025MHz-55W



12.5kHz, FM Modulation:151.850MHz-55W

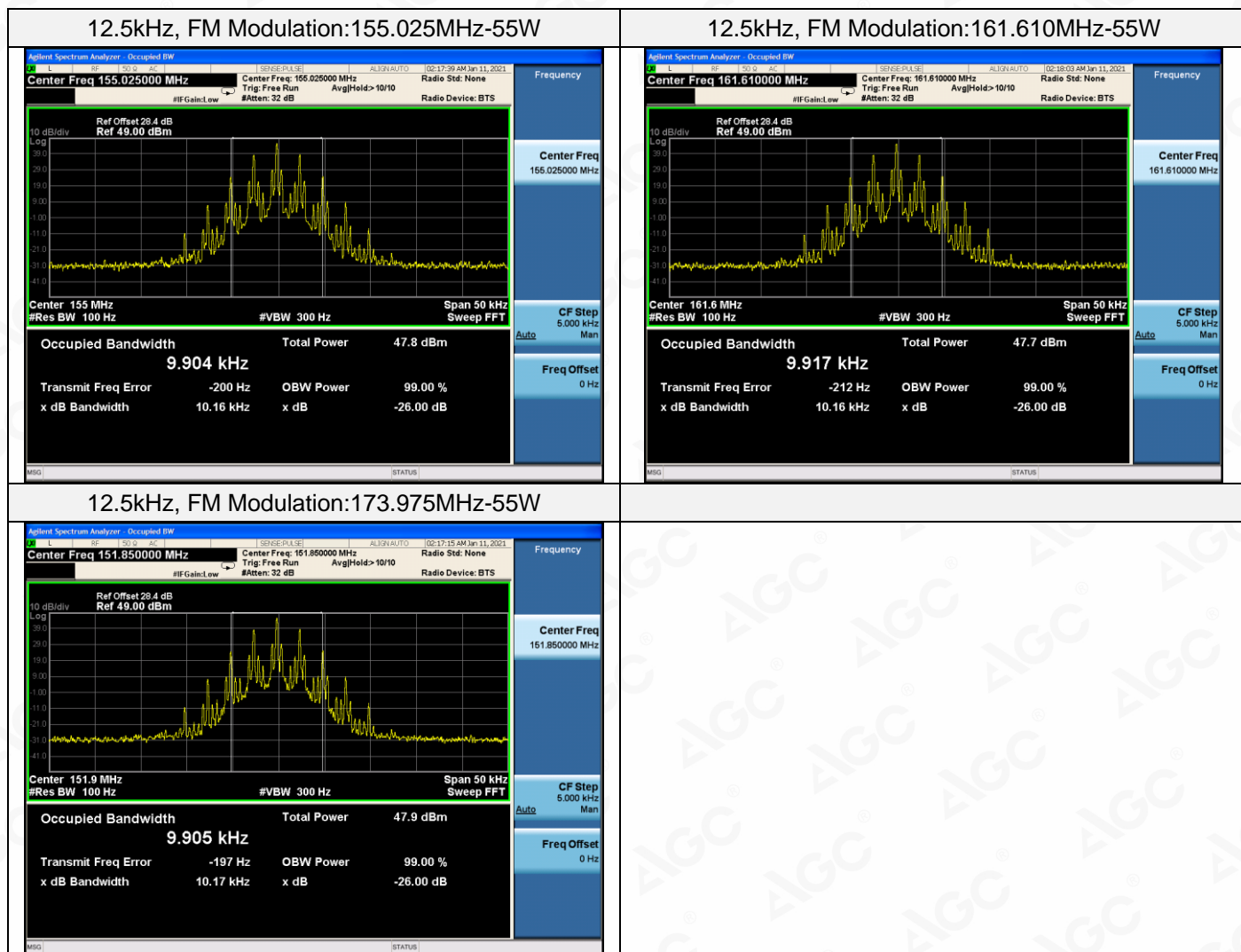


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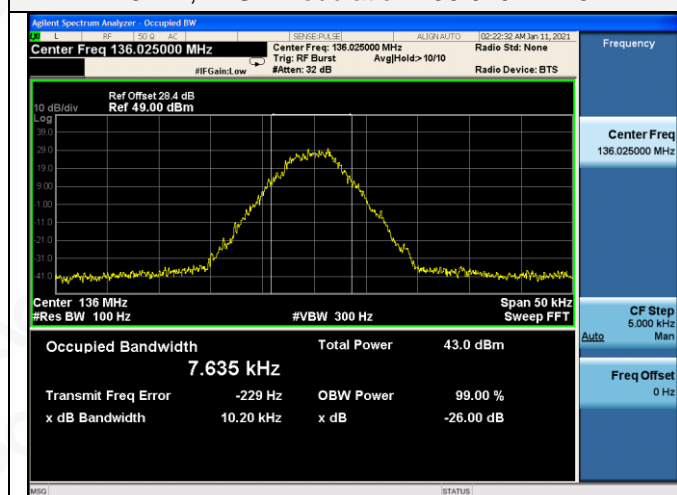


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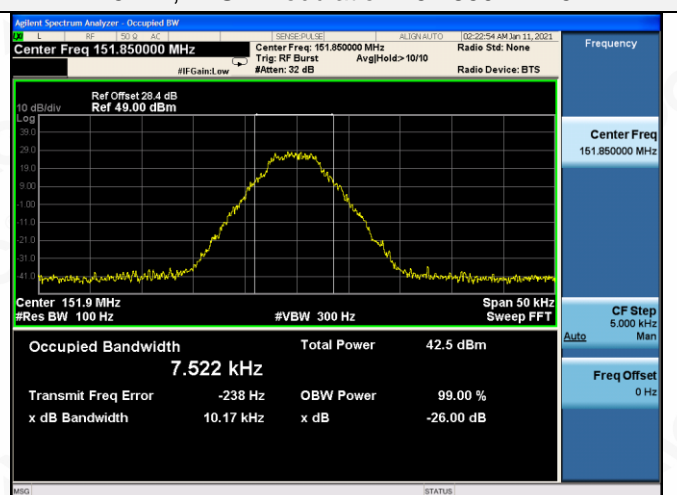
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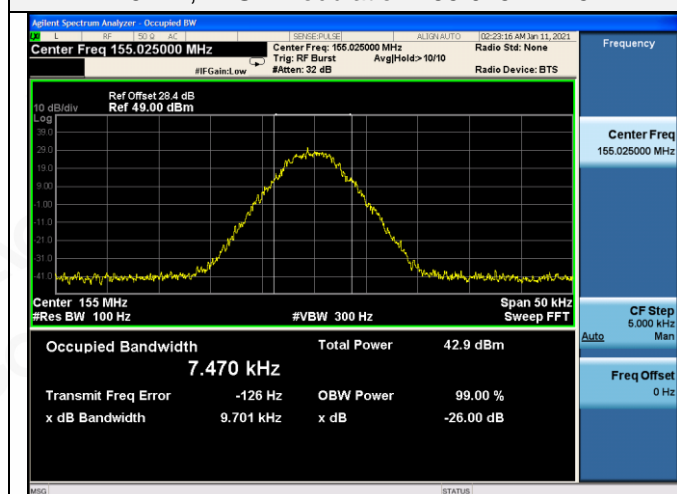
12.5kHz, 4FSK Modulation:136.025MHz-5W



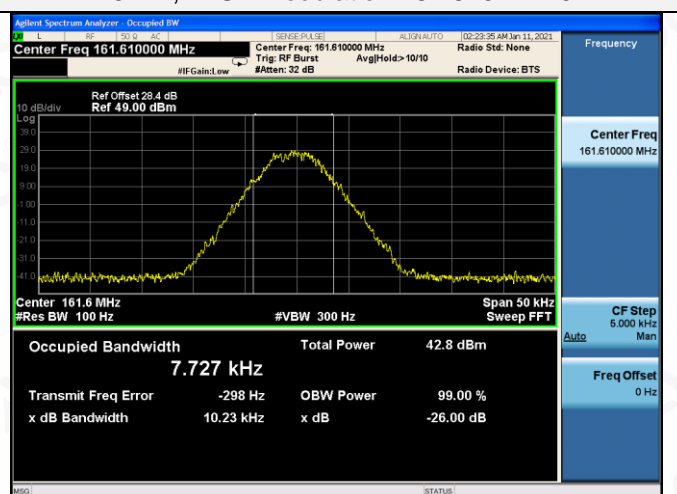
12.5kHz, 4FSK Modulation:151.850MHz-5W



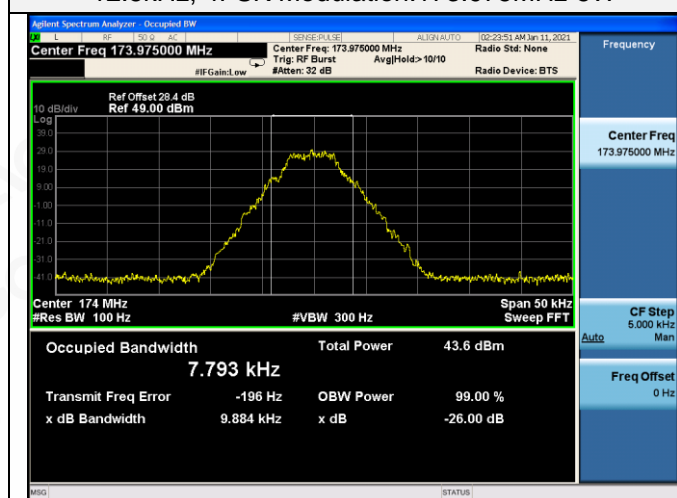
12.5kHz, 4FSK Modulation:155.025MHz-5W



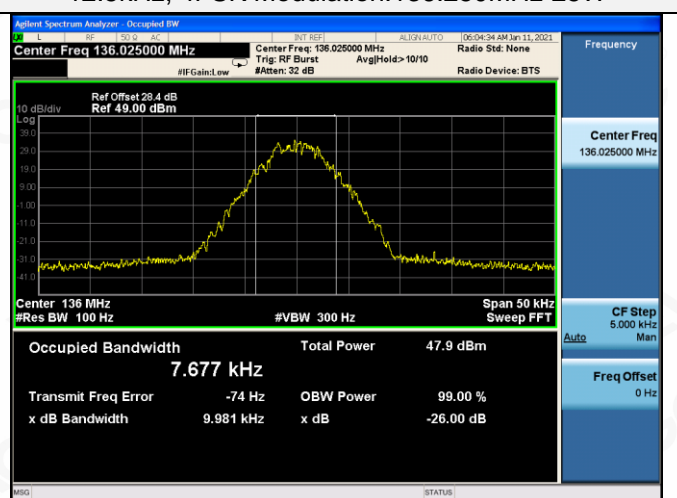
12.5kHz, 4FSK Modulation:161.610MHz-5W



12.5kHz, 4FSK Modulation:173.975MHz-5W



12.5kHz, 4FSK Modulation:136.250MHz-25W



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