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# FCC Test Report

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Report No.: AGC02415220502FE10

**FCC ID** : VO6DR-880UV

**PRODUCT DESIGNATION** : Digital Mobile Radio

**BRAND NAME** : Kydera

**MODEL NAME** : DR-880UV, DR-990UV

**APPLICANT** : FUJIAN NEW CENTURY COMMUNICATIONS CO., LTD

**DATE OF ISSUE** : Jun. 29, 2022

**STANDARD(S)** : FCC Part 90 Rules

**REPORT VERSION** : V 1.1

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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 08, 2022	Invalid	Initial Release
V1.1	1 <sup>st</sup>	Jun. 29, 2022	Valid	Correction

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**1. GENERAL INFORMATION**

Applicant	FUJIAN NEW CENTURY COMMUNICATIONS CO., LTD
Address	NO.1 FENGSHOU RD., ZHAOFENG IND. ZONE FENGZE DISTRICT, QUANZHOU, FUJIAN, CHINA.
Manufacturer	FUJIAN NEW CENTURY COMMUNICATIONS CO., LTD
Address	NO.1 FENGSHOU RD., ZHAOFENG IND. ZONE FENGZE DISTRICT, QUANZHOU, FUJIAN, CHINA.
Factory	FUJIAN NEW CENTURY COMMUNICATIONS CO., LTD
Address	NO.1 FENGSHOU RD., ZHAOFENG IND. ZONE FENGZE DISTRICT, QUANZHOU, FUJIAN, CHINA.
Product Designation	Digital Mobile Radio
Brand Name	Kydera
Test Model	DR-880UV
Series Model(s)	DR-990UV
Difference Description	Only the model name & top and bottom button shapes are different.
Deviation from Standard	None
Date of Receipt	May 09, 2022
Date of Test	May 09, 2022~Jun. 05, 2022
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 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Bibo Zhang  
(Project Engineer)

Jun. 05, 2022

Reviewed By

Calvin Liu  
(Reviewer)

Jun. 29, 2022

Approved By

Max Zhang  
Authorized Officer

Jun. 29, 2022

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## 2. PRODUCT INFORMATION

### 2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	2.0	
Software Version	V22.2.12	
Power Supply	DC 7.4V,3000mAh by battery, charging for DC8.4V	
Communication Type	Voice / Data	
Operation Frequency Range	From 136MHz to 174MHz VHF From 400MHz to 480MHz UHF	
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
Emission Designator	Analog Voice:	11K0F3E
	Digital Voice/Digital Data:	<input checked="" type="checkbox"/> VHF:7K64F1D <input checked="" type="checkbox"/> VHF:7K64F1W <input checked="" type="checkbox"/> UHF:7K69F1D <input checked="" type="checkbox"/> UHF:7K69F1W
Rated Output Power	7W/2.5W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	UHF:38.27dBm(High Power)-Analog	UHF:32.71dBm(Low Power)-Analog
	UHF: 38.41dBm(High Power)-Digital	UHF: 33.96dBm(Low Power )-Digital
	VHF:38.40dBm(High Power)-Analog	VHF:32.87dBm(Low Power)-Analog
	VHF: 38.38dBm(High Power)-Digital	VHF: 33.77dBm(Low Power)-Digital
Antenna Designation	Detachable	
Antenna Gain	1.5dBi	

**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.
3. The actual working frequency band of the device is UHF: 400-480MHz. According to the frequency division requirements of KDB634817 and the federal frequency allocation requirements, the working frequency band that the device needs to meet is UHF: 406.1-480MHz

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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	155.7525 MHz
	12.5 kHz	136-174MHz	Top	173.975 MHz
Analog/ Digital	12.5 kHz	400-480MHz	Bottom	406.125 MHz
	12.5 kHz	400-480MHz	Middle	453.2125 MHz
	12.5 kHz	400-480MHz	Middle	458.2125 MHz
	12.5 kHz	400-480MHz	Top	479.975 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: **VO6DR-880UV**, filing to comply with Part 2, 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 90	Private Land Mobile Radio Services
2	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
3	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
4	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
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 (Channel Spacing: 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.

## 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 7.4V	LV:DC 6.29V/HV: DC 8.51V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

### 3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended 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	$\pm 2 \text{ %}$
FM deviation	$\pm 2 \text{ %}$
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	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Agilent	N9020A	W1312-60196	Aug. 18, 2021	Aug. 17, 2022
EXA Signal Analyzer	Agilent	N9020A	MY52090123	Sep. 06, 2021	Sep. 05, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
preamplifier	ChengYi	EMC184045SE	980508	Oct. 29, 2021	Oct. 28, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 07, 2021	Jun. 06, 2022
HORN ANTENNA	EM	EM-AH-10180	/	Feb.24, 2022	Feb.23, 2023
SIGNAL GENERATOR	AGILENT	E4421B	MY43351603	Mar. 04, 2022	Mar. 03, 2023
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 07, 2021	Jun. 06, 2022
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2023
Modulation Domain Analyzer	HP	53310A	3121A02467	Jul. 03, 2020	Jul. 02, 2022
Small environmental tester	ESPEC	SH-242	--	Sep. 03, 2020	Sep. 02, 2022
RF Communication Test Set	HP	8920B	US35010161	Sep. 06, 2020	Sep. 05, 2022
Attenuator	Weinachel Corp	58-30-33	ML030	Oct. 24, 2021	Oct. 23, 2022
RF Cable	R&S	1#	--	Each time	N/A
RF Cable	R&S	2#	--	Each time	N/A
Fliter-UHF	Microwave	N25155M2	498705	May 09, 2021	May 08, 2022
Fliter-UHF	Microwave	N25155M2	498705	May 07, 2022	May 06, 2023

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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

Item	Equipment	Model No.	Identifier	Note
1	Adapter	N/A	Input: AC 100-240V,50/60HZ, 0.3A Output: DC 12V,1A	Accessories

Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	Digital Mobile Radio	DR-880UV	FCC ID: VO6DR-880UV	EUT
2	Battery	BAT-3000	DC 7.4V 3000mAh	Accessories
3	Back clip	N/A	N/A	Accessories
4	Charger	DM-CH01	Input: DC 12V 1A Output: 8.4V,0.5A	Accessories
5	Lanyard	N/A	N/A	Accessories

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**4.5 SUMMARY OF TEST RESULTS**

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

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## 5.DESCRIPTION OF TEST MODES

The EUT (**Digital Mobile 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 Top channel-VHF	12.5 kHz
4	TX Bottom channel-UHF	12.5 kHz
5	TX Middle channel-UHF	12.5 kHz
6	TX Middle channel-UHF	12.5 kHz
7	TX Top channel-UHF	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 manufacturer.
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

- a). According to FCC §2.1055,§90.213, the frequency stability shall be measured with variation of ambient temperature from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  centigrade.
- b). 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.
- c). 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

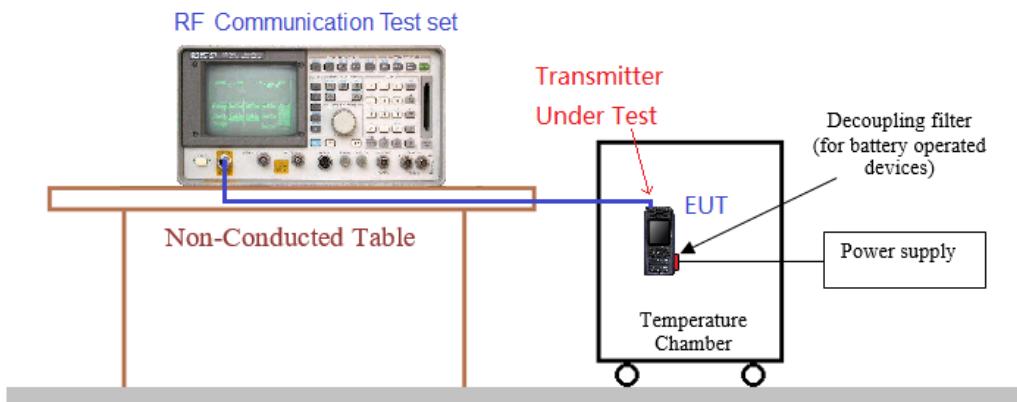
#### 6.2.1 Frequency stability versus environmental temperature

1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. 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.
3. 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.
4. 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

1. 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 7.4V.
2. 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.
3. 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-7W								
Test conditions		Frequency error (ppm)			Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	155.7525	173.975				
7.40	-30	0.382	0.653	0.891	2.5	Pass		
	-20	1.066	0.637	0.769				
	-10	1.055	0.759	0.625				
	0	0.712	0.557	0.546				
	10	0.506	0.851	0.995				
	20	0.703	1.080	0.644				
	30	0.924	1.022	0.766				
	40	0.510	0.903	0.584				
	50	0.705	0.767	0.925				
8.51	20	0.889	0.556	0.762				
6.29	20	0.563	0.862	0.838				

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF-2.5W								
Test conditions		Frequency error (ppm)			Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	155.7525	173.975				
7.40	-30	0.937	0.932	0.391	2.5	Pass		
	-20	0.499	0.843	0.438				
	-10	0.534	0.495	0.696				
	0	0.819	0.875	0.426				
	10	0.426	0.660	0.325				
	20	0.508	0.532	0.818				
	30	0.773	0.325	0.726				
	40	0.727	0.918	0.788				
	50	0.728	0.603	0.679				
8.51	20	0.769	0.633	0.308				
6.29	20	0.904	0.623	0.695				

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12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-7W								
Test conditions		Frequency error (ppm)			Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	155.7525	173.975				
7.40	-30	0.868	0.764	0.605	2.5	Pass		
	-20	0.703	0.772	0.759				
	-10	0.527	0.669	0.824				
	0	0.532	0.509	1.084				
	10	0.976	0.566	0.673				
	20	0.895	0.738	0.716				
	30	0.880	0.797	0.876				
	40	0.690	0.976	0.653				
	50	0.819	0.544	1.096				
	8.51	20	1.035	0.659				
6.29	20	0.803	0.535	0.566				

12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-2.5W								
Test conditions		Frequency error (ppm)			Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)						
		136.025	155.7525	173.975				
7.40	-30	0.393	0.839	0.923	2.5	Pass		
	-20	0.364	0.365	0.592				
	-10	0.527	0.307	0.495				
	0	0.874	0.823	0.391				
	10	0.965	0.434	0.663				
	20	0.501	0.868	0.535				
	30	0.324	0.590	0.321				
	40	0.527	0.528	0.561				
	50	0.590	0.539	0.879				
	8.51	20	0.363	0.957				
6.29	20	0.816	0.671	0.313				

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12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For UHF-7W									
Test conditions		Frequency error (ppm)				Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)							
		406.125	453.2125	458.2125	479.975				
7.40	-30	0.564	0.653	0.808	0.862	2.5	Pass		
	-20	0.639	0.665	0.708	0.489				
	-10	0.886	0.713	0.710	0.429				
	0	1.076	0.705	0.975	0.816				
	10	0.751	0.713	0.849	0.805				
	20	0.843	0.625	1.069	0.767				
	30	0.944	0.577	0.850	0.591				
	40	0.998	0.777	0.511	0.529				
	50	0.666	1.083	0.840	0.918				
	8.51	20	1.049	0.628	0.819	0.720			
6.29	20	0.676	0.521	0.878	0.914				

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For UHF-2.5W									
Test conditions		Frequency error (ppm)				Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)							
		406.125	453.2125	458.2125	479.975				
7.40	-30	0.847	0.778	0.831	0.375	2.5	Pass		
	-20	0.994	0.755	0.646	0.453				
	-10	0.745	1.031	0.979	0.350				
	0	0.592	0.845	0.889	0.404				
	10	0.812	0.652	0.882	0.540				
	20	0.763	0.773	0.767	0.455				
	30	0.524	0.931	0.714	0.679				
	40	0.926	0.600	0.546	0.654				
	50	0.741	0.592	0.985	0.349				
	8.51	20	1.073	0.810	0.531	0.411			
6.29	20	1.045	0.929	0.885	0.957				

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12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For UHF-7W									
Test conditions		Frequency error (ppm)				Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)							
		406.125	453.2125	458.2125	479.975				
7.40	-30	0.861	1.040	0.748	0.762	2.5	Pass		
	-20	0.918	1.043	0.664	1.048				
	-10	0.683	0.637	0.982	0.750				
	0	1.011	0.995	0.888	0.745				
	10	0.674	0.895	1.076	0.903				
	20	1.043	1.066	0.972	1.023				
	30	0.814	0.873	0.964	1.011				
	40	1.091	0.844	0.968	0.626				
	50	0.952	1.028	0.686	0.546				
	8.51	20	0.762	0.911	0.747				
	6.29	20	1.048	0.687	0.991				

12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For UHF-2.5W									
Test conditions		Frequency error (ppm)				Limit (ppm)	Result		
Voltage (V)	Temp (°C)	Test Frequency (MHz)							
		406.125	453.2125	458.2125	479.975				
7.40	-30	0.419	0.637	0.546	0.911	2.5	Pass		
	-20	0.358	0.338	0.410	0.687				
	-10	0.532	0.512	0.907	0.640				
	0	0.556	0.764	0.814	0.836				
	10	0.672	0.647	0.696	0.717				
	20	0.999	0.950	0.506	0.963				
	30	0.974	0.898	0.461	0.989				
	40	0.437	0.451	0.564	0.899				
	50	0.664	0.717	0.667	0.892				
	8.51	20	0.783	0.473	0.730				
	6.29	20	0.685	0.476	0.595				

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## 7. EMISSION BANDWIDTH

### 7.1 PROVISIONS APPLICABLE

FCC Part 90.209 & 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:

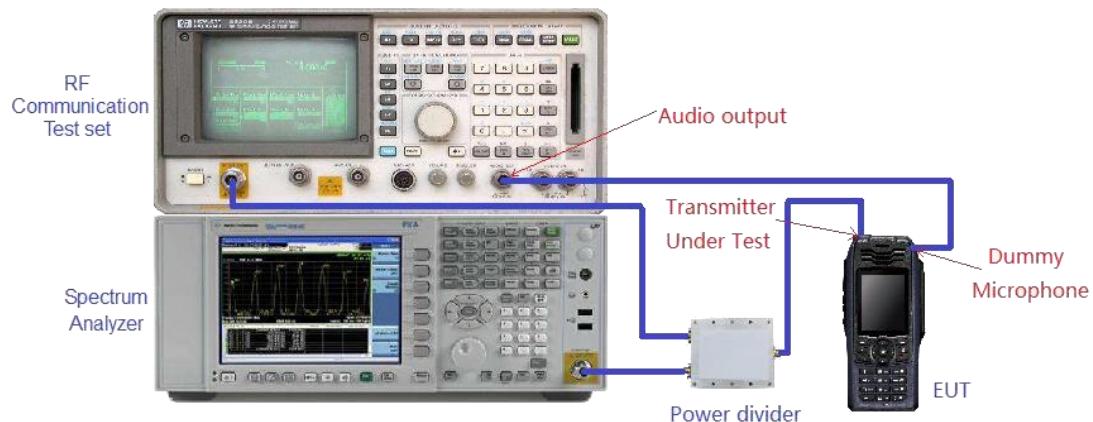
Centre frequency = fundamental frequency, span=50kHz for 12.5kHz channel spacing, RBW=100Hz, VBW=300Hz, Sweep = auto,

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-7W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.798 kHz	10.14 kHz	11.25 kHz	Pass
155.7525MHz	9.791 kHz	10.14 kHz	11.25 kHz	Pass
173.975MHz	9.790 kHz	10.14 kHz	11.25 kHz	Pass

Measurement Result of VHF-Analog Modulation-2.5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.802 kHz	10.14 kHz	11.25 kHz	Pass
155.7525MHz	9.785 kHz	10.14 kHz	11.25 kHz	Pass
173.975MHz	9.805 kHz	10.14 kHz	11.25 kHz	Pass

Measurement Result of VHF- Digital Modulation-7W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	7.575 kHz	9.559 kHz	11.25 kHz	Pass
155.7525MHz	7.641 kHz	9.371 kHz	11.25 kHz	Pass
173.975MHz	7.535 kHz	9.411 kHz	11.25 kHz	Pass

Measurement Result of VHF- Digital Modulation-2.5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	7.939 kHz	9.586 kHz	11.25 kHz	Pass
155.7525MHz	7.617 kHz	9.418 kHz	11.25 kHz	Pass
173.975MHz	7.762 kHz	9.370 kHz	11.25 kHz	Pass

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Measurement Result of UHF-Analog Modulation-7W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
406.125MHz	9.792 kHz	10.14 kHz	11.25 kHz	Pass
453.2125MHz	9.799 kHz	10.14 kHz	11.25 kHz	Pass
458.2125MHz	9.783 kHz	10.14 kHz	11.25 kHz	Pass
479.975MHz	9.805 kHz	10.14 kHz	11.25 kHz	Pass

Measurement Result of UHF- Analog Modulation-2.5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
406.125MHz	9.792 kHz	10.14 kHz	11.25 kHz	Pass
453.2125MHz	9.784 kHz	10.14 kHz	11.25 kHz	Pass
458.2125MHz	9.790 kHz	10.14 kHz	11.25 kHz	Pass
479.975MHz	9.806 kHz	10.14 kHz	11.25 kHz	Pass

Measurement Result of UHF-Digital Modulation-7W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
406.125MHz	7.606 kHz	9.346 kHz	11.25 kHz	Pass
453.2125MHz	7.577 kHz	9.514 kHz	11.25 kHz	Pass
458.2125MHz	7.610 kHz	9.700 kHz	11.25 kHz	Pass
479.975MHz	7.694 kHz	9.523 kHz	11.25 kHz	Pass

Measurement Result of UHF-Digital Modulation-2.5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
406.125MHz	7.739 kHz	9.490 kHz	11.25 kHz	Pass
453.2125MHz	7.788 kHz	10.04 kHz	11.25 kHz	Pass
458.2125MHz	7.591 kHz	9.349 kHz	11.25 kHz	Pass
479.975MHz	7.630 kHz	9.694 kHz	11.25 kHz	Pass

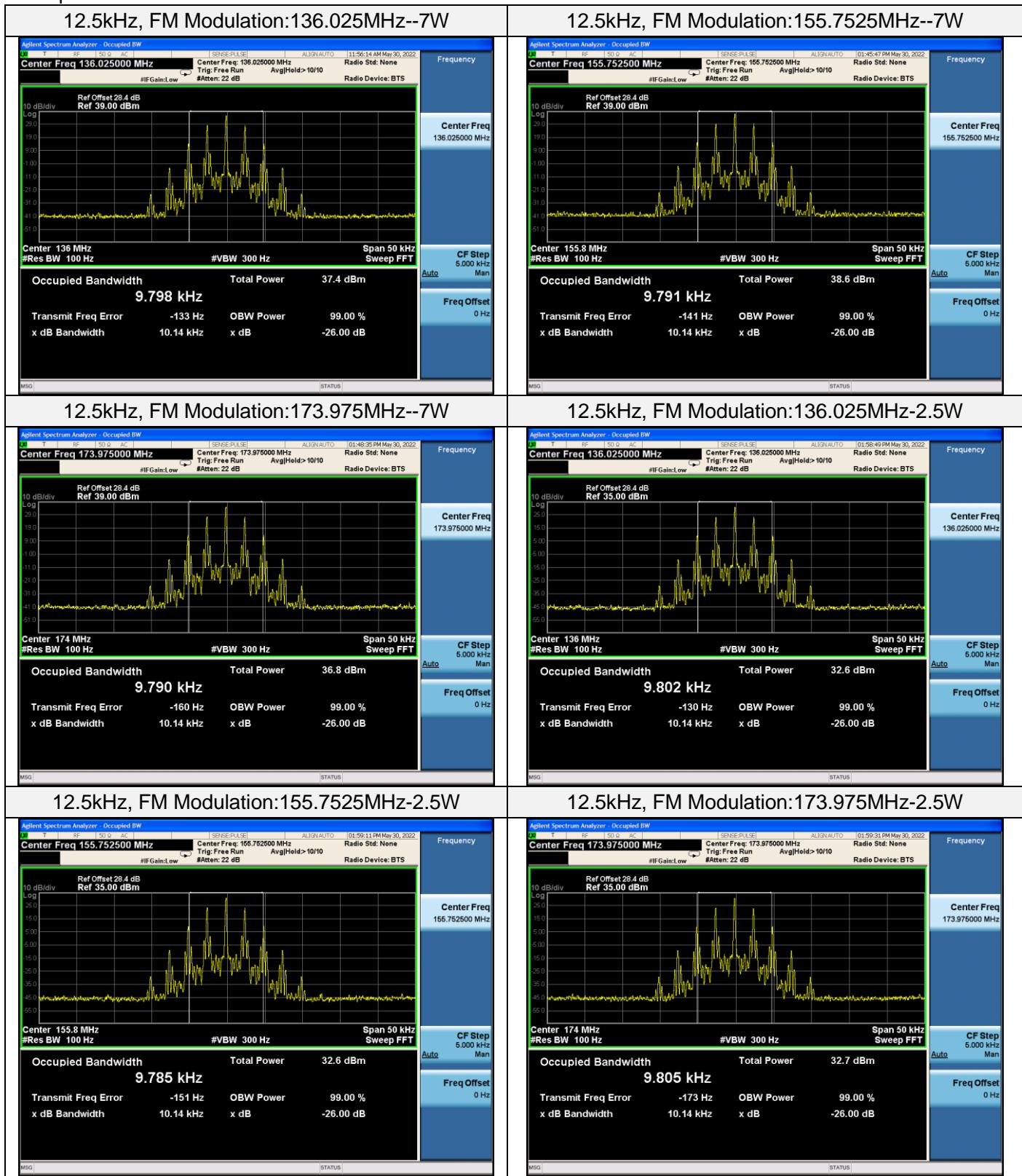
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Test plot as follows:

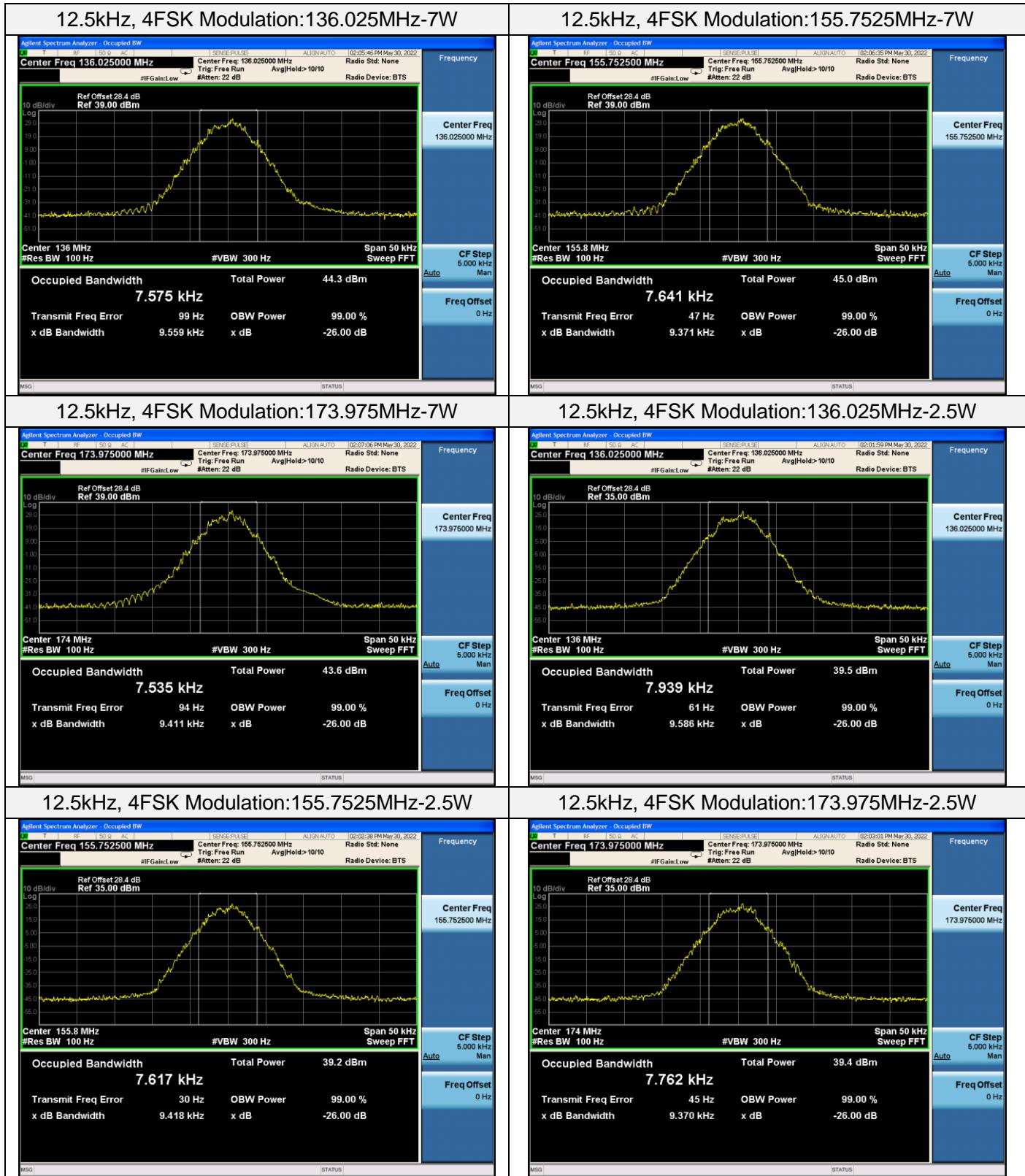


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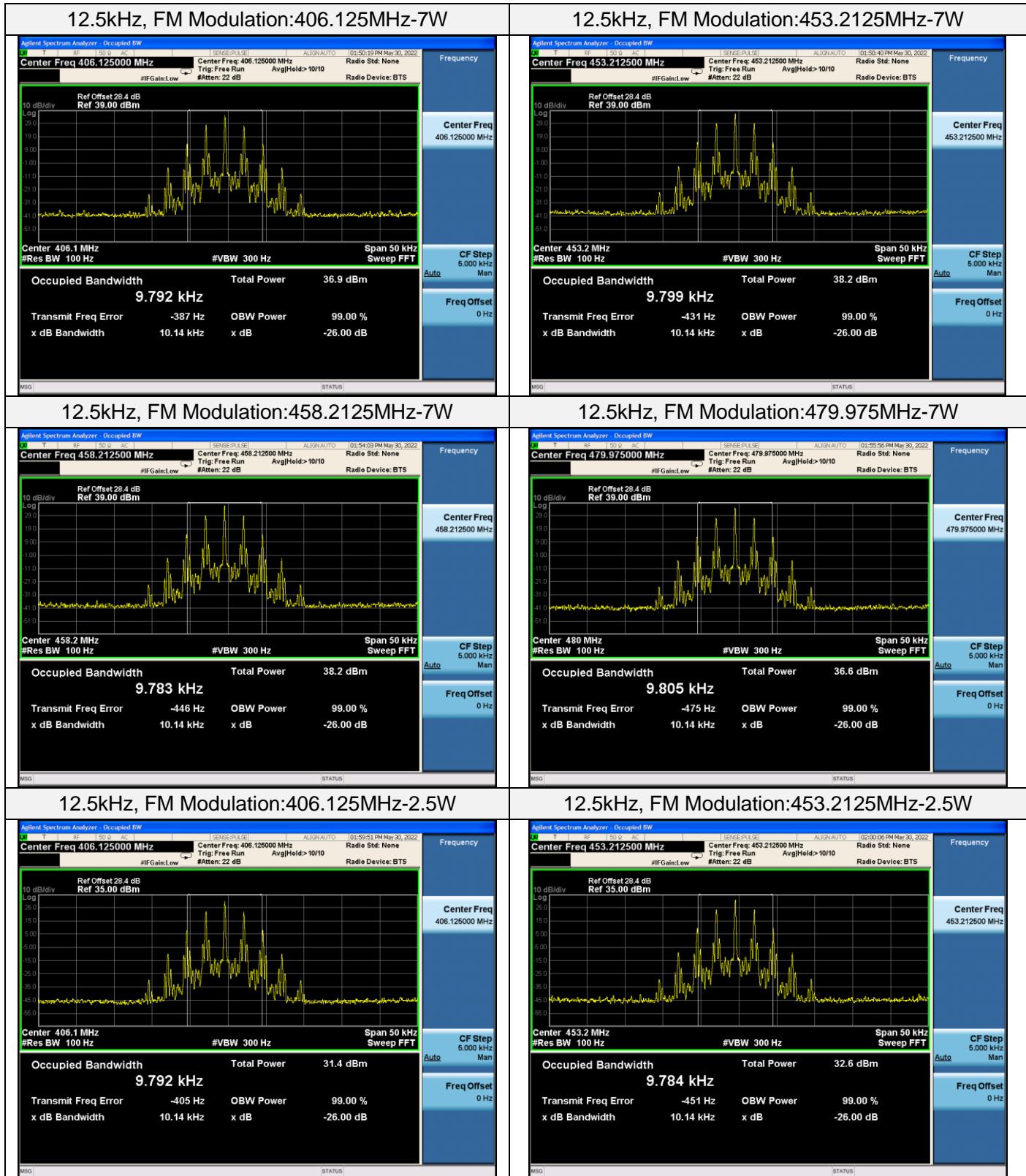


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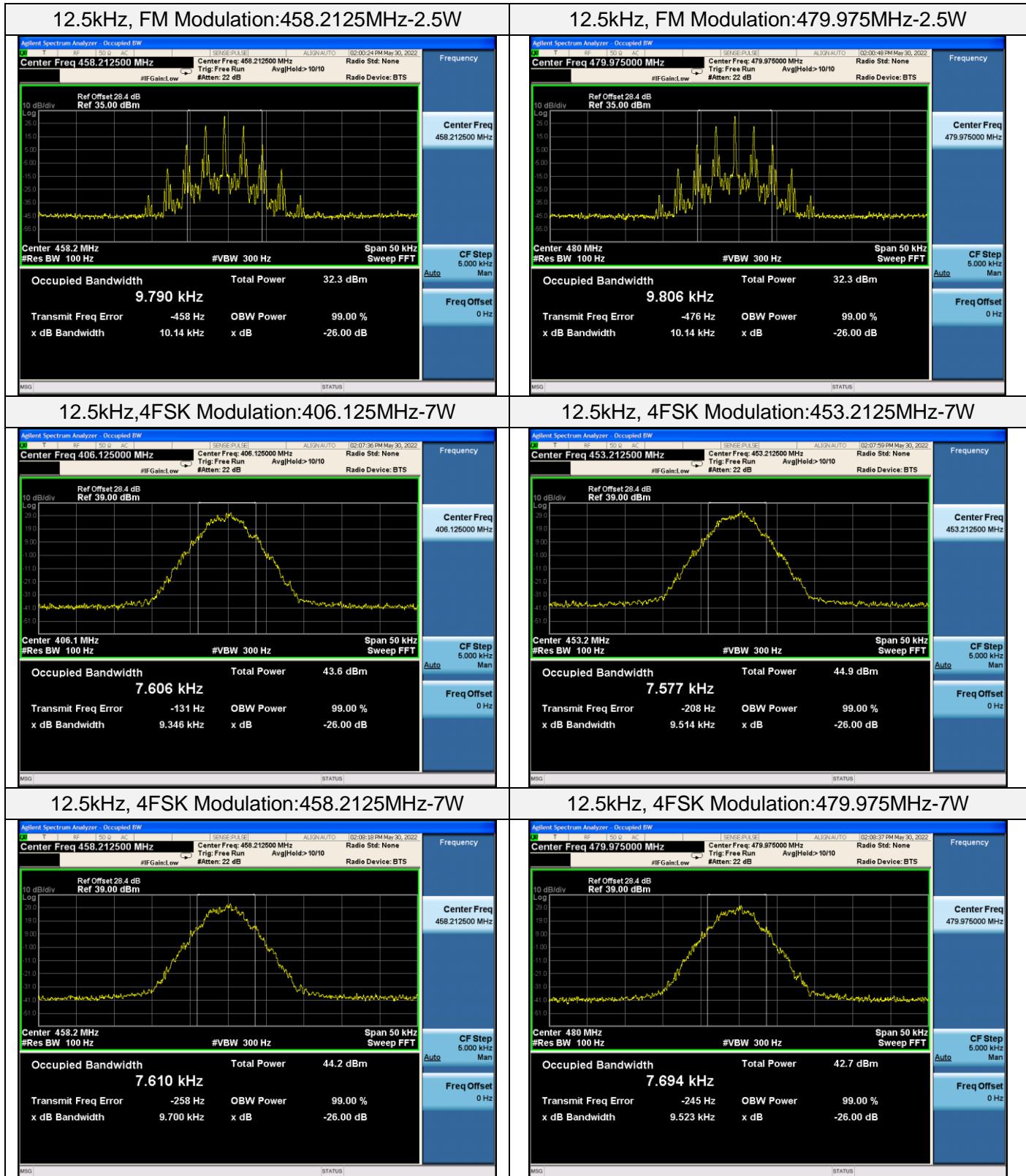


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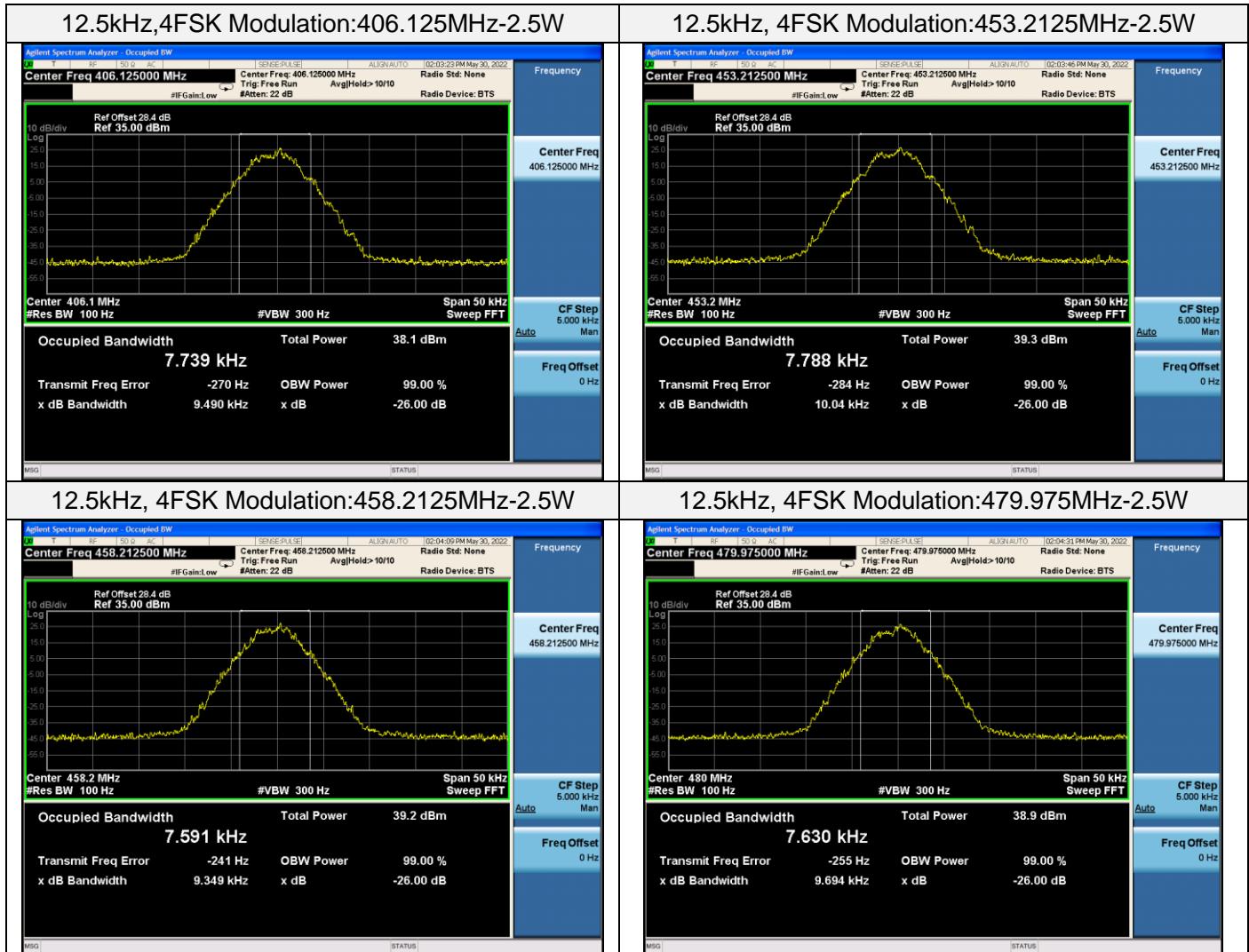


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## 8. SPURIOUS RADIATED EMISSION

### 8.1 PROVISIONS APPLICABLE

According to FCC §2.1053 and §90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with each channel separation.

Emission Mask D -for 12.5 kHz Channel Separation:

- (1) On any frequency removed from the center of the authorized bandwidth  $f_0$  to 5.625 kHz removed from  $f_0$ : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency ( $f_d$  in kHz)  $f_0$  of more than 5.625 kHz but no more than 12.5 kHz: At least  $7.27(f_d-2.88 \text{ kHz}) \text{ dB}$
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency ( $f_d$  in kHz)  $f_0$  of more than 12.5 kHz: At least  $50+10 \log(P) \text{ dB}$  or 70 dB, whichever is lesser attenuation.

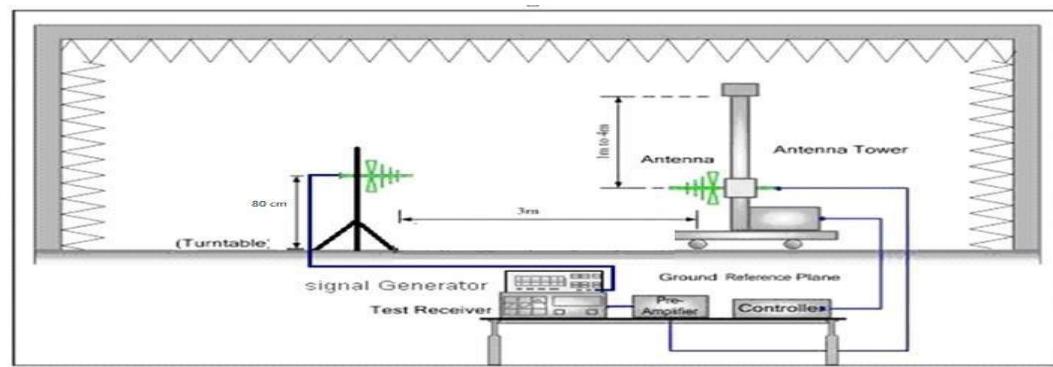
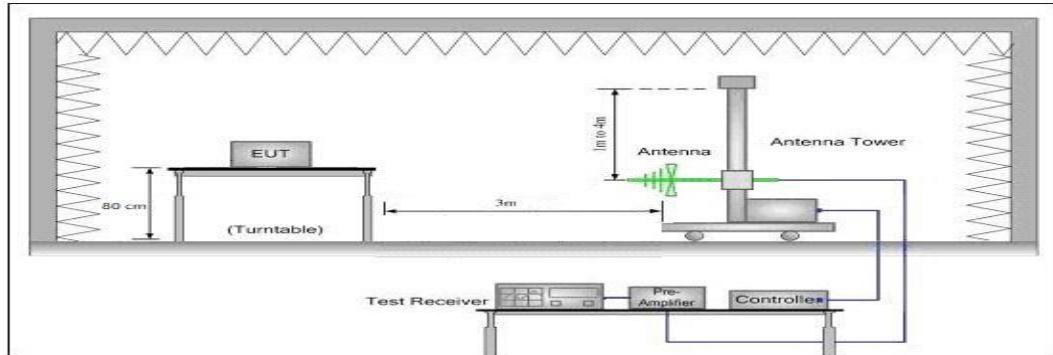
### 8.2 MEASUREMENT PROCEDURE

- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

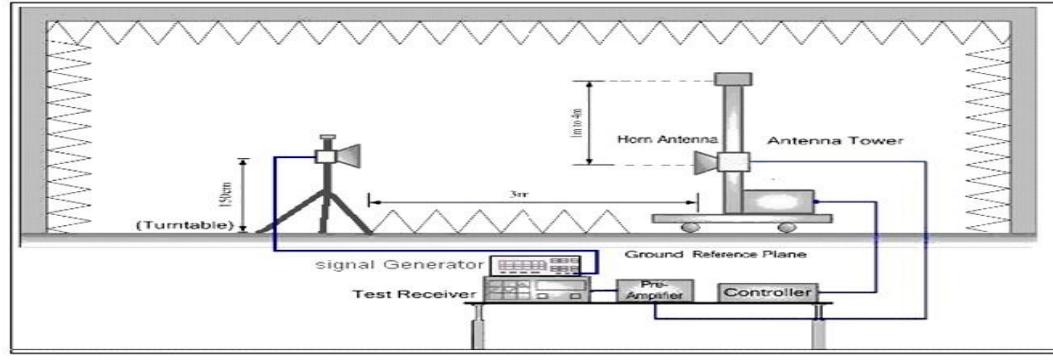
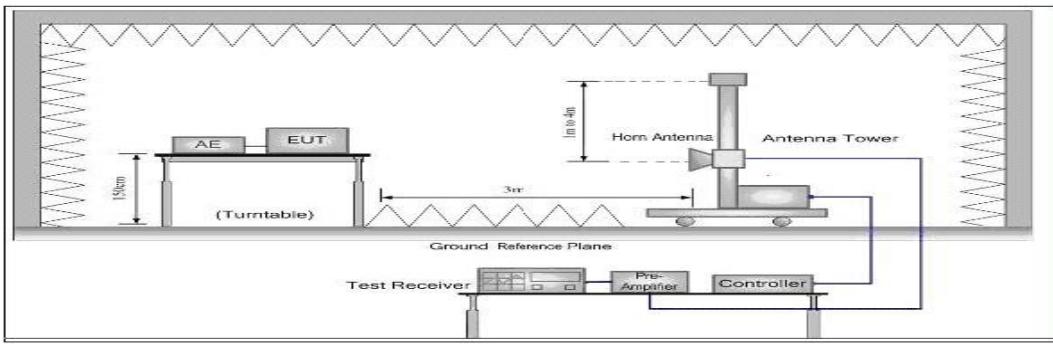
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### 8.3 MEASUREMENT SETUP

#### RADIATED BELOW 1GHZ



#### RADIATED ABOVE 1 GHZ



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## 8.4 MEASUREMENT RESULTS

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10 harmonic.

In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.

The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

EIRP = “Read Value” + Measured substitution value + 2.15.

Test limit calculation:

Preliminary calculation	Final Result
At least $50+10 \log (P) = 50+10\log (7) = 58.45$ (dB)	Limit=P- Preliminary calculation=38.45-58.45=-20 dBm
At least $50+10 \log (P) = 50+10\log (2.5) = 53.98$ (dB)	Limit=P- Preliminary calculation=33.98-53.98=-20 dBm

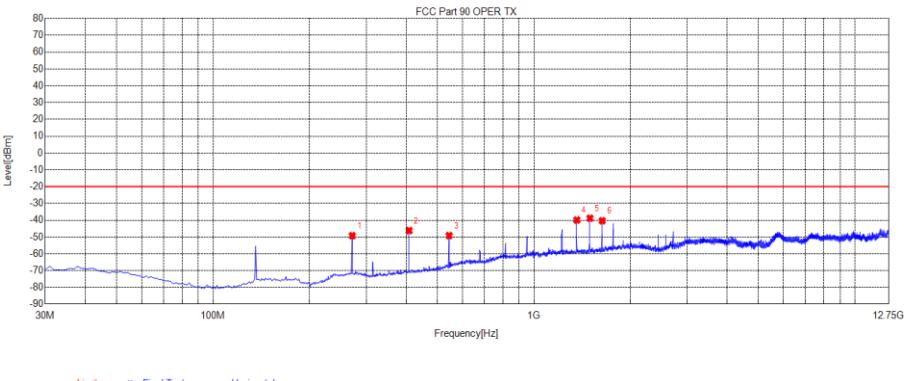
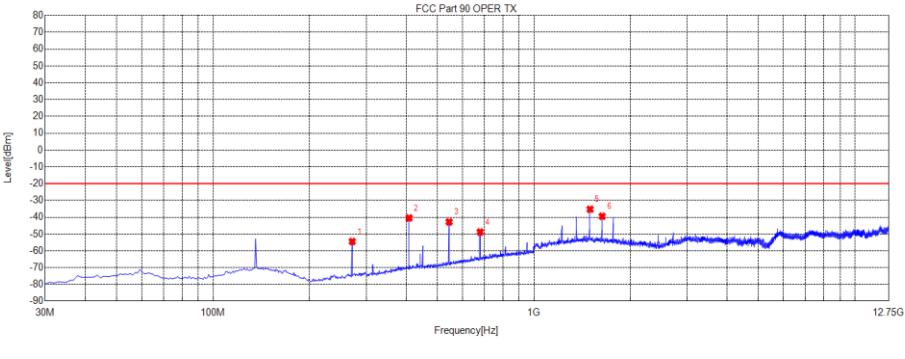
Note: The report only reflects high-power test data as the worst.

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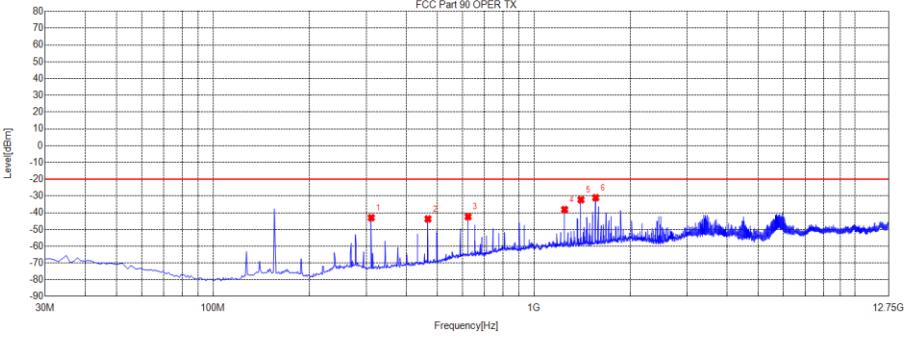
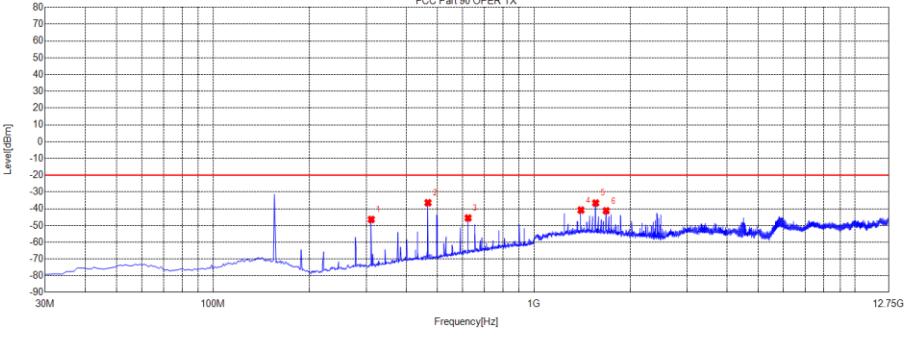
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.53	-79.27	-49.21	-20.00	29.21	30.06	112	Horizontal
2	408.3	-77.75	-46.17	-20.00	26.17	31.58	155	Horizontal
3	544.1	-84.01	-49.13	-20.00	29.13	34.88	2	Horizontal
4	1360.7611	-33.43	-39.93	-20.00	19.93	-6.50	342	Horizontal
5	1495.8996	-32.60	-38.82	-20.00	18.82	-6.22	96	Horizontal
6	1632.2132	-35.12	-40.34	-20.00	20.34	-5.22	112	Horizontal
Test Mode:		TX:136.025MHz-FM		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.53	-81.64	-54.46	-20.00	34.46	27.18	356	Vertical
2	408.3	-72.57	-40.46	-20.00	20.46	32.11	196	Vertical
3	544.1	-77.25	-42.84	-20.00	22.84	34.41	136	Vertical
4	679.9	-85.95	-48.83	-20.00	28.83	37.12	52	Vertical
5	1497.0747	-34.43	-35.29	-20.00	15.29	-0.86	154	Vertical
6	1632.2132	-38.15	-39.45	-20.00	19.45	-1.30	52	Vertical

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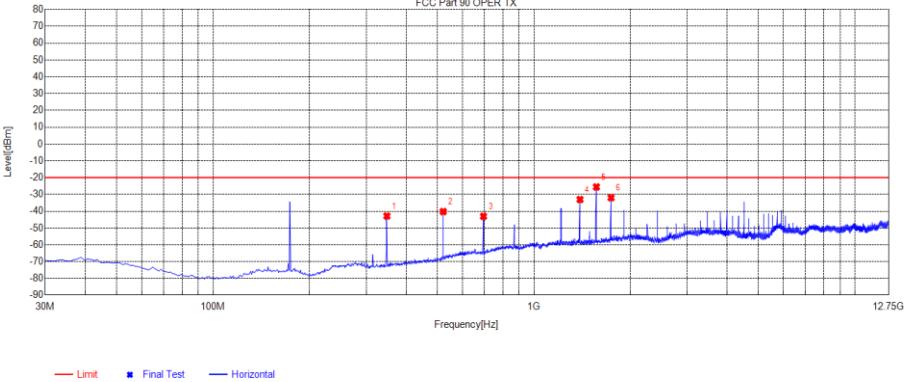
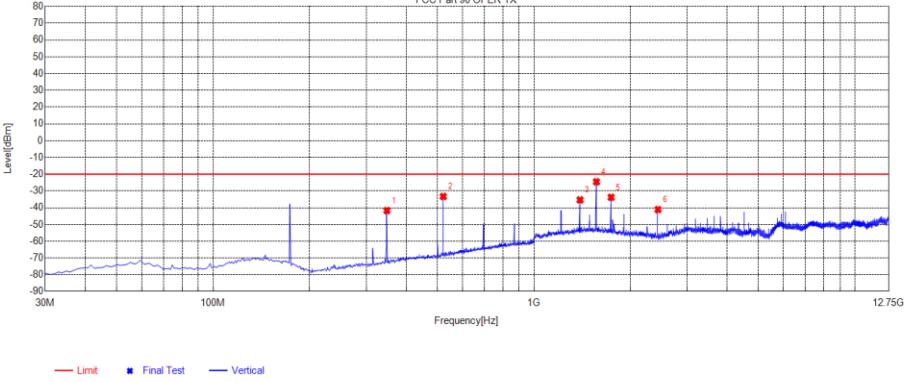
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	311.3	-72.23	-42.99	-20.00	22.99	29.24	121	Horizontal
2	467.47	-76.45	-43.74	-20.00	23.74	32.71	164	Horizontal
3	623.64	-79.28	-42.37	-20.00	22.37	36.91	343	Horizontal
4	1246.7747	-31.39	-38.13	-20.00	18.13	-6.74	359	Horizontal
5	1401.8902	-25.89	-32.31	-20.00	12.31	-6.42	35	Horizontal
6	1558.1808	-25.29	-31.06	-20.00	11.06	-5.77	52	Horizontal
Test Mode:		TX:155.7525MHz-FM		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	311.3	-74.81	-46.42	-20.00	26.42	28.39	179	Vertical
2	467.47	-69.40	-36.47	-20.00	16.47	32.93	204	Vertical
3	623.64	-81.68	-45.55	-20.00	25.55	36.13	331	Vertical
4	1401.8902	-39.36	-40.85	-20.00	20.85	-1.49	305	Vertical
5	1558.1808	-35.59	-36.63	-20.00	16.63	-1.04	297	Vertical
6	1680.393	-39.76	-41.23	-20.00	21.23	-1.47	102	Vertical

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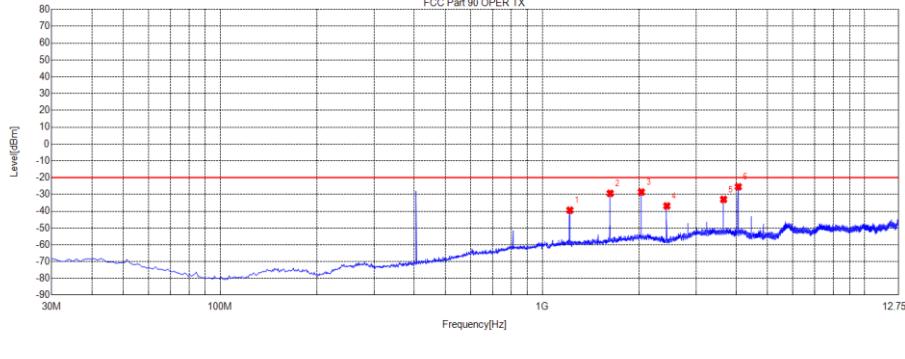
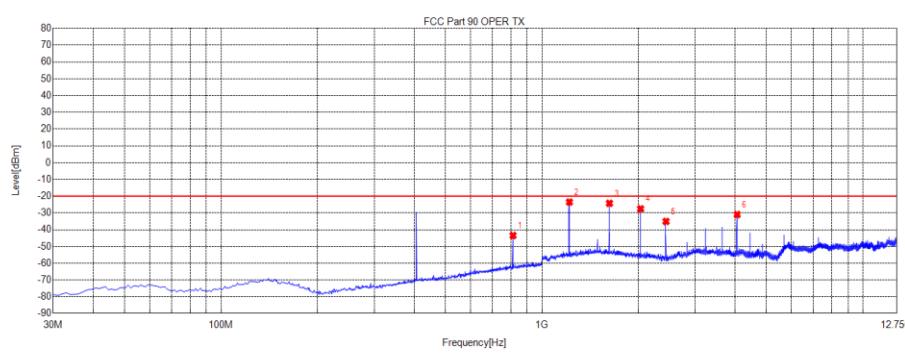
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1	348.16	-73.02	-42.88	-20.00	22.88	30.14	138	Horizontal
2	521.79	-74.33	-40.23	-20.00	20.23	34.10	359	Horizontal
3	696.39	-80.17	-43.06	-20.00	23.06	37.11	334	Horizontal
4	1392.4892	-26.60	-33.04	-20.00	13.04	-6.44	54	Horizontal
5	1566.4066	-19.86	-25.57	-20.00	5.57	-5.71	283	Horizontal
6	1740.324	-27.57	-31.98	-20.00	11.98	-4.41	351	Horizontal
Test Mode:		TX:173.975MHz-FM		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.16	-71.60	-41.71	-20.00	21.71	29.89	332	Vertical
2	521.79	-67.22	-33.32	-20.00	13.32	33.90	102	Vertical
3	1392.4892	-33.81	-35.36	-20.00	15.36	-1.55	26	Vertical
4	1566.4066	-23.50	-24.57	-20.00	4.57	-1.07	9	Vertical
5	1740.324	-32.14	-33.82	-20.00	13.82	-1.68	52	Vertical
6	2435.9936	-37.24	-41.14	-20.00	21.14	-3.90	68	Vertical

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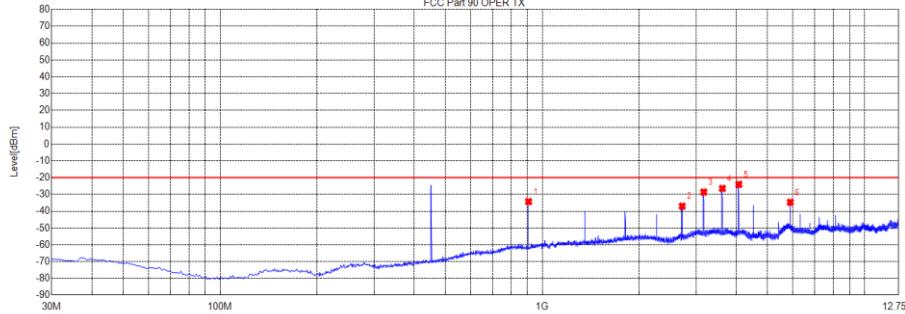
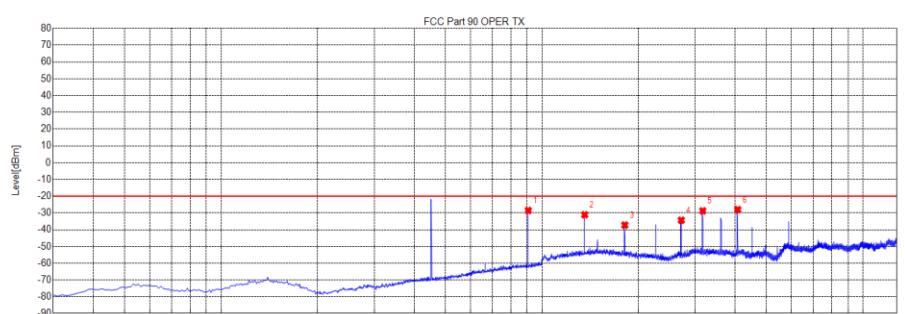
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1	1218.5719	-32.63	-39.43	-20.00	19.43	-6.80	280	Horizontal
2	1625.1625	-24.11	-29.38	-20.00	9.38	-5.27	94	Horizontal
3	2030.5781	-26.03	-28.62	-20.00	8.62	-2.59	264	Horizontal
4	2437.1687	-32.69	-36.88	-20.00	16.88	-4.19	264	Horizontal
5	3655.7656	-34.35	-32.99	-20.00	12.99	1.36	256	Horizontal
6	4061.1811	-27.06	-25.47	-20.00	5.47	1.59	264	Horizontal
Test Mode:		TX:406.125MHz-FM		Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	812.79	-82.95	-43.46	-20.00	23.46	39.49	1	Vertical
2	1218.5719	-20.81	-23.52	-20.00	3.52	-2.71	145	Vertical
3	1623.9874	-23.00	-24.27	-20.00	4.27	-1.27	154	Vertical
4	2030.5781	-24.87	-27.55	-20.00	7.55	-2.68	196	Vertical
5	2437.1687	-31.19	-35.09	-20.00	15.09	-3.90	188	Vertical
6	4061.1811	-31.22	-30.96	-20.00	10.96	0.26	43	Vertical

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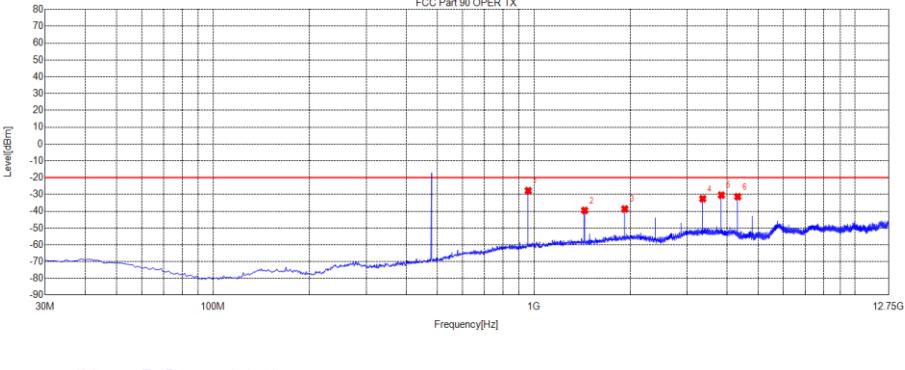
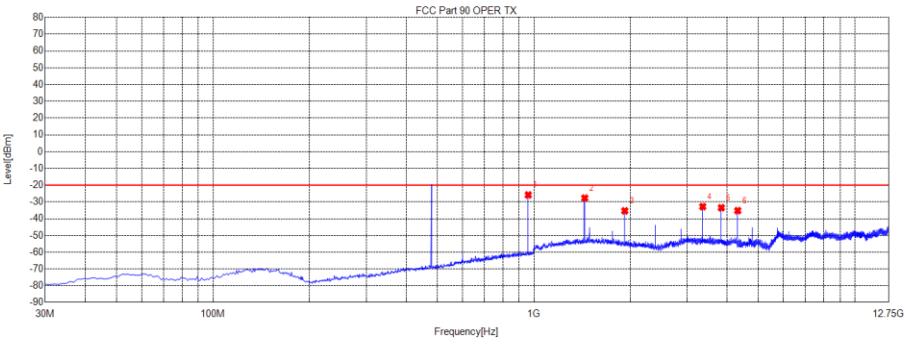
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1	906.88	-74.37	-34.28	-20.00	14.28	40.09	308	Horizontal
2	2719.1969	-34.66	-37.03	-20.00	17.03	-2.37	122	Horizontal
3	3172.7923	-29.24	-28.64	-20.00	8.64	0.60	96	Horizontal
4	3625.2125	-27.77	-26.45	-20.00	6.45	1.32	258	Horizontal
5	4078.8079	-25.59	-24.04	-20.00	4.04	1.55	104	Horizontal
6	5892.0142	-42.08	-34.69	-20.00	14.69	7.39	224	Horizontal
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1	906.88	-68.93	-28.55	-20.00	8.55	40.38	171	Vertical
2	1359.586	-29.33	-31.10	-20.00	11.10	-1.77	128	Vertical
3	1813.1813	-35.33	-37.27	-20.00	17.27	-1.94	256	Vertical
4	2719.1969	-32.17	-34.37	-20.00	14.37	-2.20	247	Vertical
5	3172.7923	-28.96	-28.80	-20.00	8.80	0.16	9	Vertical
6	4078.8079	-28.29	-28.04	-20.00	8.04	0.25	341	Vertical

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1	960.23	-69.02	-27.77	-20.00	7.77	41.25	172	Horizontal
2	1439.4939	-33.21	-39.55	-20.00	19.55	-6.34	300	Horizontal
3	1920.117	-35.62	-38.69	-20.00	18.69	-3.07	300	Horizontal
4	3359.636	-33.50	-32.57	-20.00	12.57	0.93	258	Horizontal
5	3840.259	-32.02	-30.45	-20.00	10.45	1.57	249	Horizontal
6	4319.707	-32.27	-31.33	-20.00	11.33	0.94	308	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	960.23	-66.75	-25.83	-20.00	5.83	40.92	179	Vertical
2	1440.6691	-26.48	-27.71	-20.00	7.71	-1.23	162	Vertical
3	1920.117	-33.02	-35.33	-20.00	15.33	-2.31	162	Vertical
4	3359.636	-32.90	-32.80	-20.00	12.80	0.10	170	Vertical
5	3840.259	-33.70	-33.48	-20.00	13.48	0.22	323	Vertical
6	4319.707	-35.34	-35.20	-20.00	15.20	0.14	170	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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