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# FCC Test Report

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Report No.: AGC01284230801FR01

**FCC ID** : T4K-AT500MII

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : CB RADIO

**BRAND NAME** : N/A

**MODEL NAME** : AT-500M II

**APPLICANT** : Qixiang Electron Science & Technology Co., Ltd.

**DATE OF ISSUE** : Aug. 11, 2023

**STANDARD(S)** : FCC Part 95 Subpart D

**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	/	Aug. 11, 2023	Valid	Initial Release

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### 1. GENERAL INFORMATION

Applicant	Qixiang Electron Science & Technology Co., Ltd.
Address	Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China
Manufacturer	Qixiang Electron Science & Technology Co., Ltd.
Address	Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China
Factory	Qixiang Electron Science & Technology Co., Ltd.
Address	Qixiang Building, Tangxi Industrial Zone, Luojiang District, Quanzhou, Fujian, China
Product Designation	CB RADIO
Brand Name	N/A
Test Model	AT-500M II
Deviation from Standard	No any deviation from the test method
Date of receipt of test item	Aug. 01, 2023
Date of Test	Aug. 01, 2023~Aug. 11, 2023
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-382-A-1998. The sample tested as described in this report is in compliance with the FCC Rules Part 95. The test results of this report relate only to the tested sample identified in this report.

Prepared By	 <hr/> Bibo Zhang (Project Engineer)	Aug. 11, 2023
Reviewed By	 <hr/> Calvin Liu (Reviewer)	Aug. 11, 2023
Approved By	 <hr/> Max Zhang Authorized Officer	Aug. 11, 2023

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## 2. PRODUCT INFORMATION

### 2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	1.0	
Software Version	1.0	
Power Supply	DC 12V/DC 24V	
Communication Type	Voice / Tone only	
Operation Frequency Range	26.965MHz-27.405MHz	
Modulation Type	AM/FM	
Channel Separation	10 KHz	
Emission Designator	AM: 8K00A3E FM: 8K00F3E	
Number of Channels:	40 Channels	
Rated Output Power	4W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	AM: 35.97dBm	FM:35.72dBm
Antenna Designation	Detachable	
Antenna Type	External antenna	
Antenna Gain	0dBi (Typical), 5dBi (Max)	
Frequency Tolerance	AM:1.094ppm FM:1.096ppm	

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## 2.2 TEST FREQUENCY LIST

According to ANSI C63.26 section 5.1.2.1:

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

Frequency range Over which EUT operates	Number of Frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

Operation Frequency Each of Channel			
CBRS		CBRS	
Channel	Frequency	Channel	Frequency
1	<b>26.965 MHz</b>	21	27.215 MHz
2	26.975 MHz	22	27.225 MHz
3	26.985 MHz	23	27.255 MHz
4	27.005 MHz	24	27.235 MHz
5	27.015 MHz	25	27.245 MHz
6	27.025 MHz	26	27.265 MHz
7	27.035 MHz	27	27.275 MHz
8	27.055 MHz	28	27.285 MHz
9	27.065 MHz	29	27.295 MHz
10	27.075 MHz	30	27.305 MHz
11	27.085 MHz	31	27.315 MHz
12	27.105 MHz	32	27.325 MHz
13	27.115 MHz	33	27.335 MHz
14	27.125 MHz	34	27.345 MHz
15	27.135 MHz	35	27.355 MHz
16	27.155 MHz	36	27.365 MHz
17	27.165 MHz	37	27.375 MHz
18	27.175 MHz	38	27.385 MHz
19	27.185 MHz	39	27.395 MHz
20	<b>27.205 MHz</b>	40	<b>27.405 MHz</b>

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

This submittal(s) (test report) is intended for FCC ID: **T4K-AT500MII**, filing to comply with Part 2, Part 95 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 95	Personal Radio Services
2	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
3	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
4	ANSI EIA/TIA 382-A-1989	Minimum standards – Citizens band radio service amplitude modulated (AM) transceivers operating in the 27MHz band.

### 2.5 CALCULATION OF EMISSION INDICATORS

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

#### For AM Mode (ChannelSpacing: 10kHz)

Emission Designator 8K00A3E

Bn = 2M, M may vary between 4000 and 10000 depending on the quality desired.

Speech and music, M = 4000, Bandwidth: 8000 Hz= 8 kHz

A3E portion of the designator represents an AM voice transmission.

Therefore, the entire designator for 10 kHz channel spacing AM mode is 8K00A3E.

#### For FM Mode (ChannelSpacing: 10kHz)

Emission Designator 8K00F3E

Bn = 2M, M may vary between 4000 and 10000 depending on the quality desired.

Speech and music, M = 4000, Bandwidth: 8000 Hz= 8 kHz

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 10 kHz channel spacing FM mode is 8K00F3E.

### 2.6 STATEMENT - COMPLIANCE TO §95.977

§95.977 CBRS tone transmissions.

In addition to the tones permitted under §95.377, CBRS transmitter types may be designed to transmit brief tones to indicate the beginning or end of a transmission.

This device is capable of transmitting a brief (less than one second) audio tone, “Roger Beep”, when the PTT button is released on the microphone indicating end of transmission. This function is user selectable and complies with the requirements of §95.377. See User’s Manual.



## **2.7 SPECIAL ACCESSORIES**

Not available for this EUT intended for grant.

## **2.8 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 12V	LV: DC 10.2V/HV:DC 13.8V
Power supply	DC 24V	LV: DC 20.4V/HV:DC 27.6V
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	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9020A	MY53300860	Jun. 01, 2023	May 31, 2024
EXA Signal Analyzer	Aglient	N9020A	MY52090123	Jun. 02, 2023	Jun. 01 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
preamplifier	ChengYi	EMC184045SE	980508	Sep. 29, 2021	Sep. 28, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 03, 2023	Jun. 02, 2024
HORN ANTENNA	EM	EM-AH-10180	/	Feb. 22 2023	Feb. 21 2024
SIGNAL GENERATOR	AGILENT	N5182A	MY50140530	Jun. 01, 2023	May 31, 2024
SIGNAL GENERATOR	AGILENT	N5182B	MY53050647	Mar. 03, 2023	Mar. 02, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
ANTENNA	SCHWARZBECK	VULB9168	D69250	May 11, 2023	May 10, 2025
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Small environmental tester	ESPEC	SH-242	--	Aug. 03, 2023	Aug. 02, 2024
RF Communication Test Set	HP	8920B	US35010161	Jun. 02, 2023	Jun. 01 2024
Attenuator	Weinachel Corp	58-30-33	ML030	Jun. 01, 2023	May 31, 2024
RF Cable	R&S	1#	--	Each time	N/A
RF Cable	R&S	2#	--	Each time	N/A
Fliter-VHF	Microwave	N26460M1	498703	May 05, 2023	May 04, 2024

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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	Load Antenna	HG-E10	Terminator DC -3G 50W	Accessories

Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	CB Radio	AT-500M II	FCC ID: T4K-AT500MII	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	§ 95.967& 2.1046(a)	Maximum Transmitter Power	Pass
2	§95.975& 2.1047(a) (b)	Modulation Limit	Pass
3	§95.975& 2.1047(a)	Audio Frequency Response	Pass
4	§95.973& 2.1049	Emission Bandwidth	Pass
5	§95.979& 2.1049	Emission Mask	Pass
6	§95.965& 2.1055(a) (1)	Frequency Stability	Pass
7	§95.979& 2.1051	Spurious Emission on Antenna Port	Pass
8	§95.979& 2.1053	Ratiated Spurious Emission	Pass

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## 5. DESCRIPTION OF TEST MODES

The EUT (**CB RADIO**) has been tested under normal operating condition. (CBRS TX) are chosen for testing at each channel separation.

NO.	TEST MODE DESCRIPTION	CHANNEL SEPARATION
1	CBRS TX CHANNEL 1	10.0 kHz
2	CBRS TX CHANNEL 20	10.0 kHz
3	CBRS TX CHANNEL 40	10.0 kHz

**Note:**

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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## 6.FREQUENCY STABILITY

### 6.1 PROVISIONS APPLICABLE

Each CBRs transmitter type must be designed such that the transmit carrier frequency (or in the case of SSB transmissions, the reference frequency) remains within 50 parts-per- million of the channel center frequencies specified in §95.963 under all normal operating conditions.

### 6.2 MEASUREMENT PROCEDURE

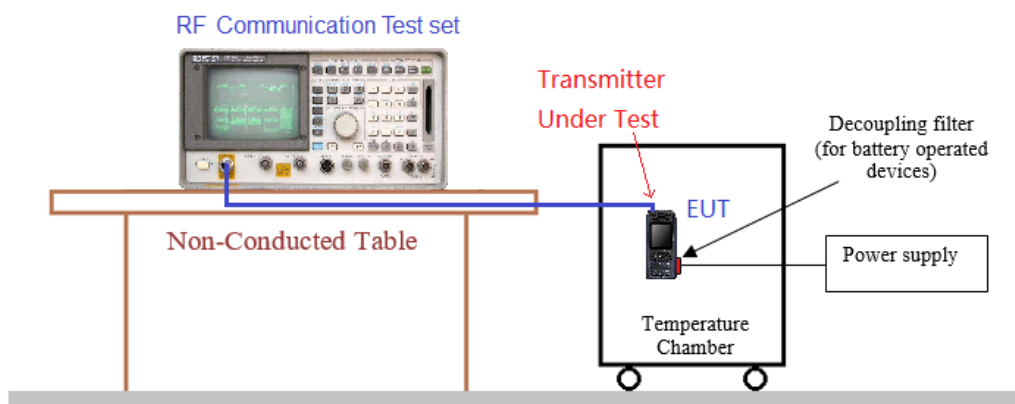
#### 6.2.1 Frequency stability versus environmental temperature

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°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°C decreased per stage until the lowest temperature -30°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°C to 25°C. Otherwise, an environment chamber set for a temperature of 20°C shall be used. The EUT shall be powered by DC 12V/24V.
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

10 kHz Channel Separation, AM modulation, Assigned Frequency For CBRS						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		26.965MHz	27.205MHz	27.405MHz		
12.0	-30	0.866	0.653	0.541	50	Pass
	-20	0.874	0.752	0.786		
	-10	0.503	1.087	0.729		
	0	0.761	0.696	0.676		
	10	1.072	0.578	0.868		
	20	0.690	0.727	0.602		
	30	0.983	0.795	0.685		
	40	0.623	0.635	0.679		
	50	0.945	0.708	0.792		
13.8	20	0.508	1.002	1.056		
10.2	20	0.831	0.903	1.092		

10 kHz Channel Separation, FM modulation, Assigned Frequency For CBRS						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		26.965MHz	27.205MHz	27.405MHz		
12.0	-30	0.590	0.586	1.012	50	Pass
	-20	1.093	0.600	0.798		
	-10	1.033	0.935	0.860		
	0	0.647	1.012	0.734		
	10	0.910	0.922	0.602		
	20	0.942	0.866	0.706		
	30	0.718	1.069	0.705		
	40	0.537	0.696	0.794		
	50	0.612	0.902	0.627		
13.8	20	0.924	1.038	0.740		
10.2	20	0.852	0.552	0.707		

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10 kHz Channel Separation, AM modulation, Assigned Frequency For CBRS						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		26.965MHz	27.205MHz	27.405MHz		
24.0	-30	0.615	0.519	0.728	50	Pass
	-20	0.548	1.059	0.917		
	-10	0.752	0.512	0.963		
	0	0.850	0.839	0.933		
	10	0.558	0.710	0.963		
	20	0.864	0.721	0.546		
	30	0.713	<b>1.094</b>	0.696		
	40	0.764	0.571	0.636		
	50	0.527	0.629	1.009		
27.6	20	0.935	0.748	0.708		
20.4	20	0.566	1.047	0.571		

10 kHz Channel Separation, FM modulation, Assigned Frequency For CBRS						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		26.965MHz	27.205MHz	27.405MHz		
24.0	-30	0.918	0.830	0.713	50	Pass
	-20	1.052	0.877	1.003		
	-10	0.539	0.892	0.733		
	0	0.806	0.549	1.043		
	10	<b>1.096</b>	0.944	0.780		
	20	0.697	0.710	0.969		
	30	0.909	0.626	0.607		
	40	0.735	0.764	0.797		
	50	0.994	0.568	0.919		
27.6	20	0.898	1.025	0.992		
20.4	20	0.676	0.886	0.591		

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## 7. EMISSION BANDWIDTH

### 7.1 PROVISIONS APPLICABLE

FCC Part 95.973, FCC Part 2.1049

Each CBRS transmitter type must be designed such that the occupied bandwidth does not exceed the authorized bandwidth for the emission type under test.

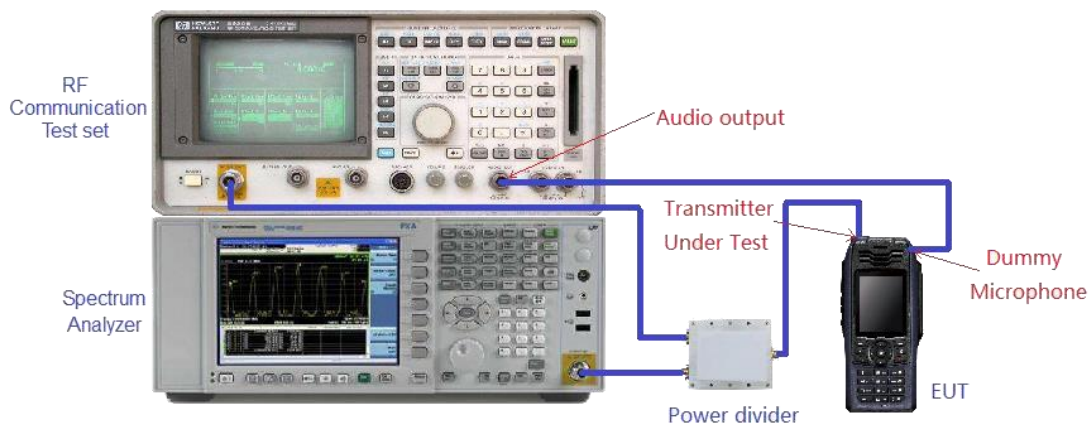
(a) AM and FM. The authorized bandwidth for emission type A3E and F3E is 8 kHz.

(b)SSB.The authorized bandwidth for emission types J3E, R3E, and H3E is 4 kHz.

### 7.2 MEASUREMENT PROCEDURE

1. Connect the equipment as illustrated
2. 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).
3. Spectrum set as follow:  
Centre frequency = the nominal EUT channel center frequency,  
The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of  $1.5 \times \text{OBW}$  is sufficient)  
RBW = 1% to 5% of the anticipated OBW, VBW  $\geq 3 \times \text{RBW}$ , Sweep = auto, Detector function = peak, Trace = max hold
4. Set 99% Occupied Bandwidth and 26dB Bandwidth
5. Measure and record the results in the test report.

### 7.3 MEASUREMENT SETUP

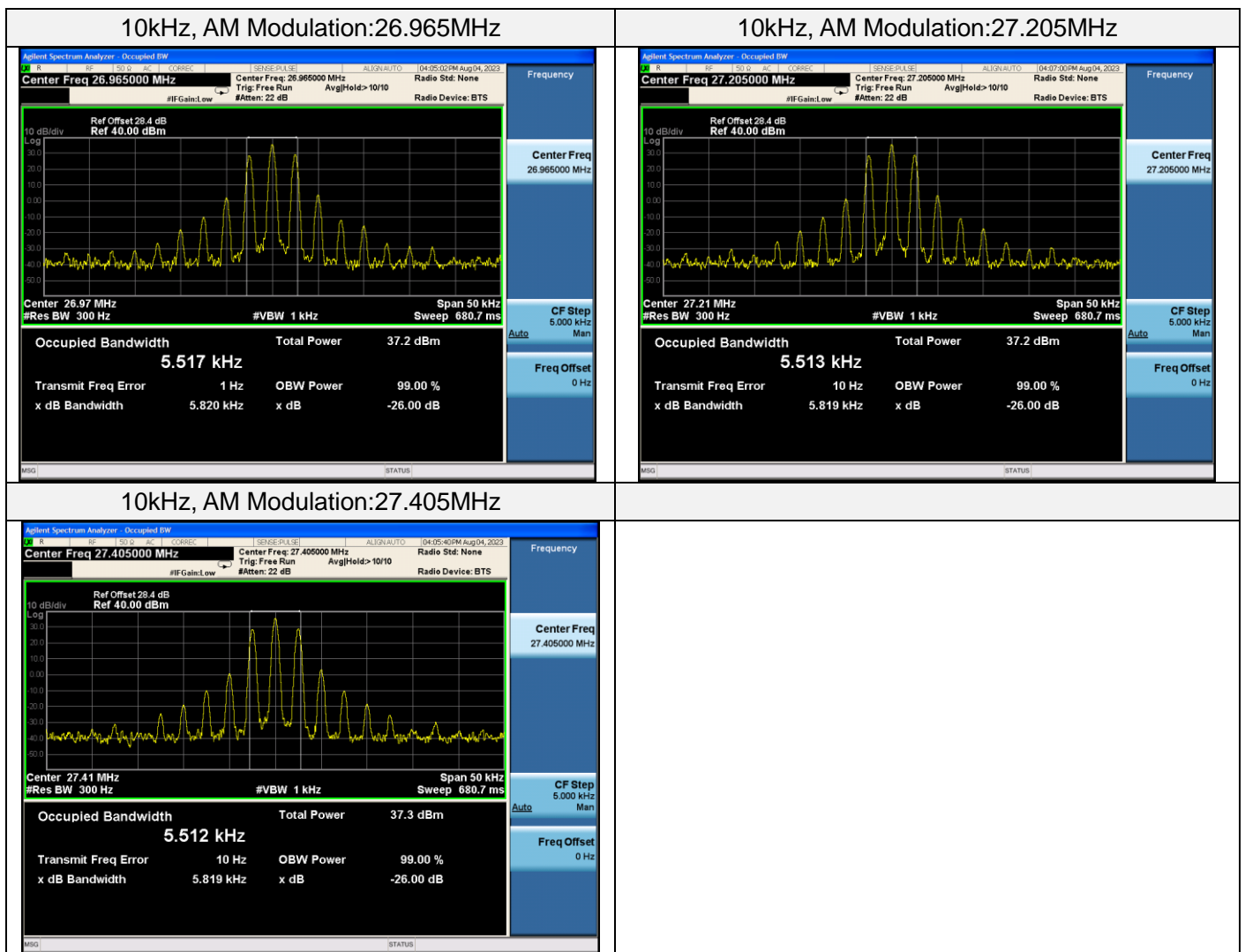


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### 7.4 MEASUREMENT RESULTS

Emission Bandwidth Measurement Result-CBRS-DC 12V				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.517 kHz	5.820 kHz	8.0 kHz	Pass
27.205 MHz	5.513 kHz	5.819 kHz	8.0 kHz	Pass
27.405 MHz	5.512 kHz	5.819 kHz	8.0 kHz	Pass

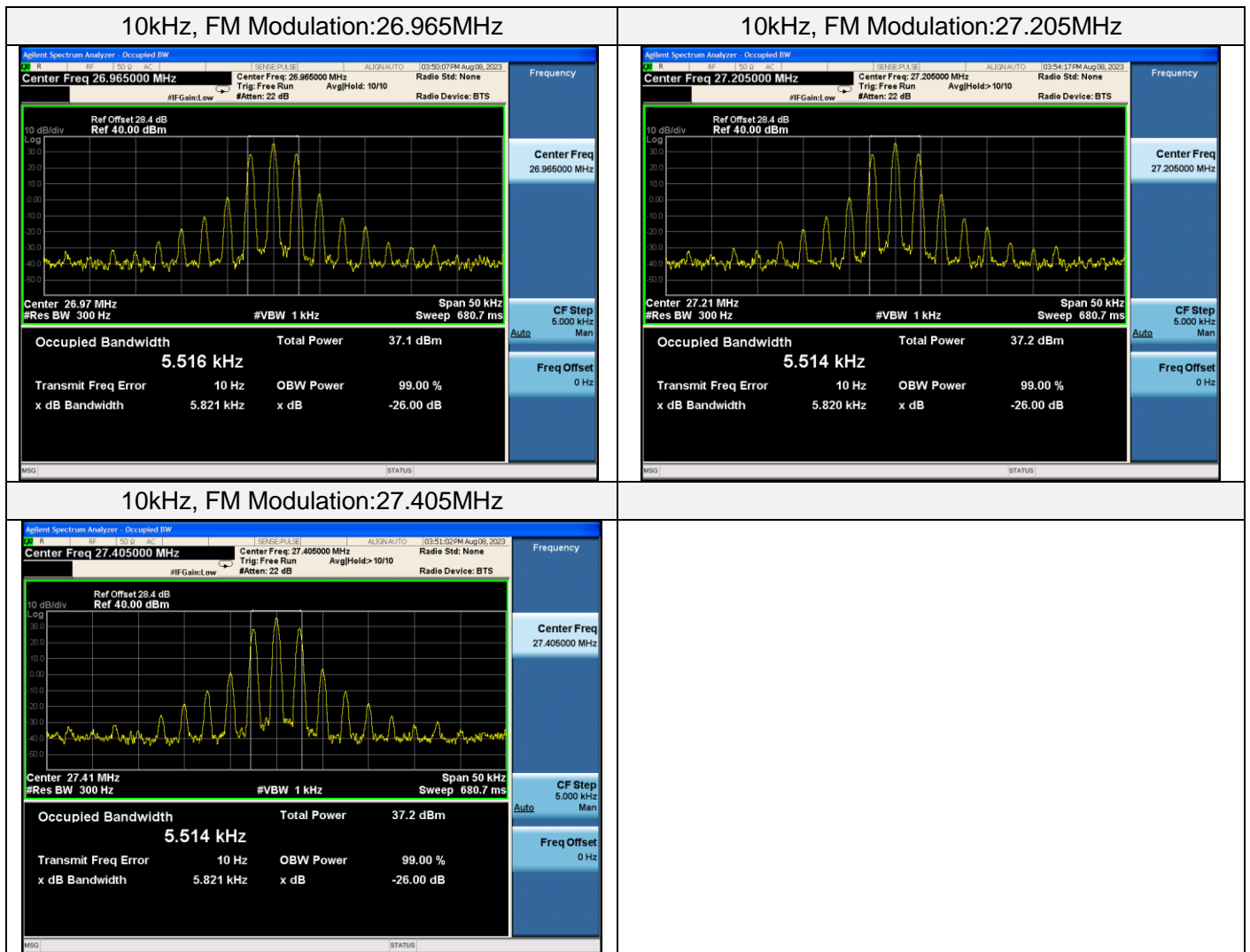
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-DC 12V				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.516 kHz	5.821 kHz	8.0 kHz	Pass
27.205 MHz	5.514 kHz	5.820 kHz	8.0 kHz	Pass
27.405 MHz	5.514 kHz	5.821 kHz	8.0 kHz	Pass

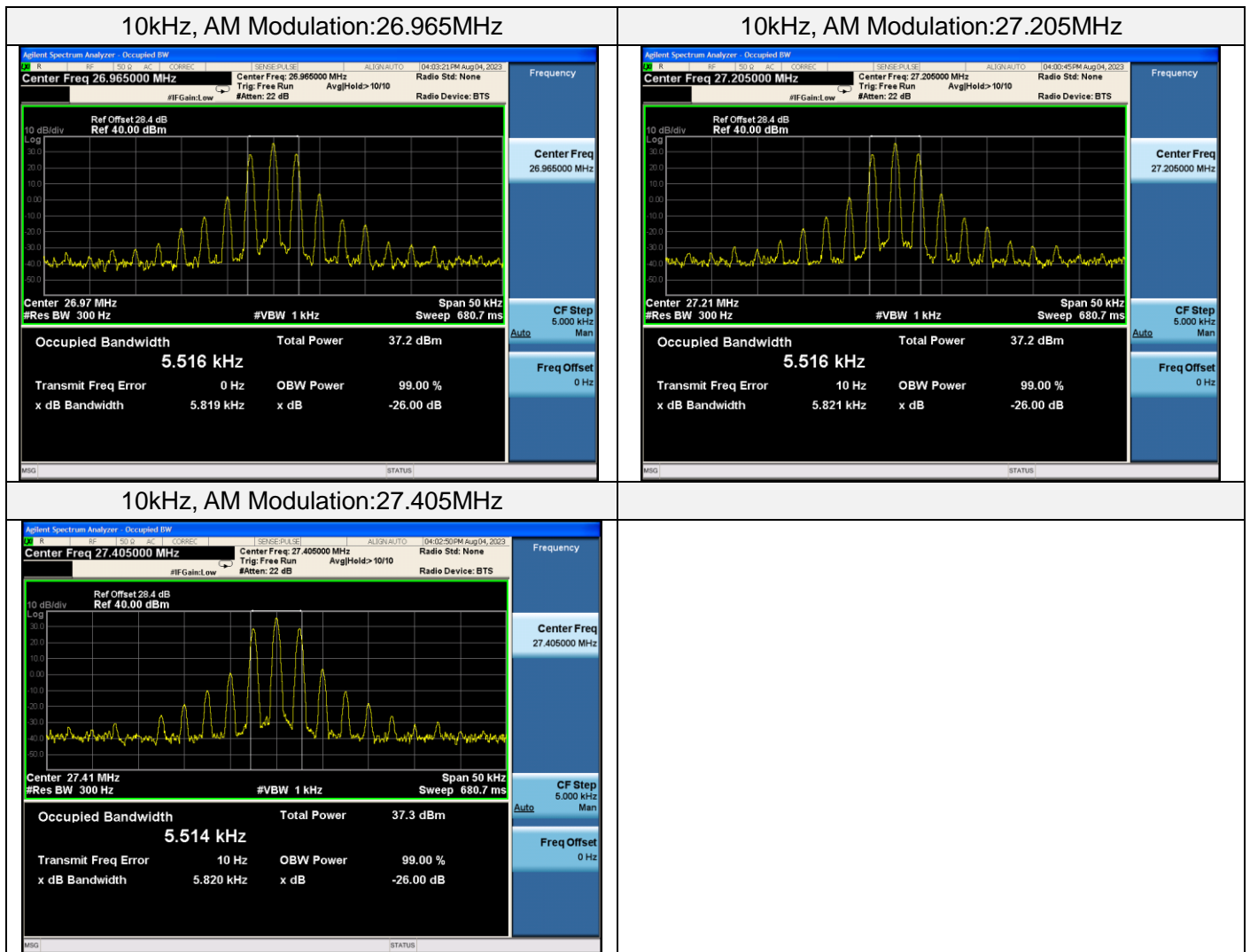
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-DC 24V				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.516 kHz	5.819 kHz	8.0 kHz	Pass
27.205 MHz	5.516 kHz	5.821 kHz	8.0 kHz	Pass
27.405 MHz	5.514 kHz	5.820 kHz	8.0 kHz	Pass

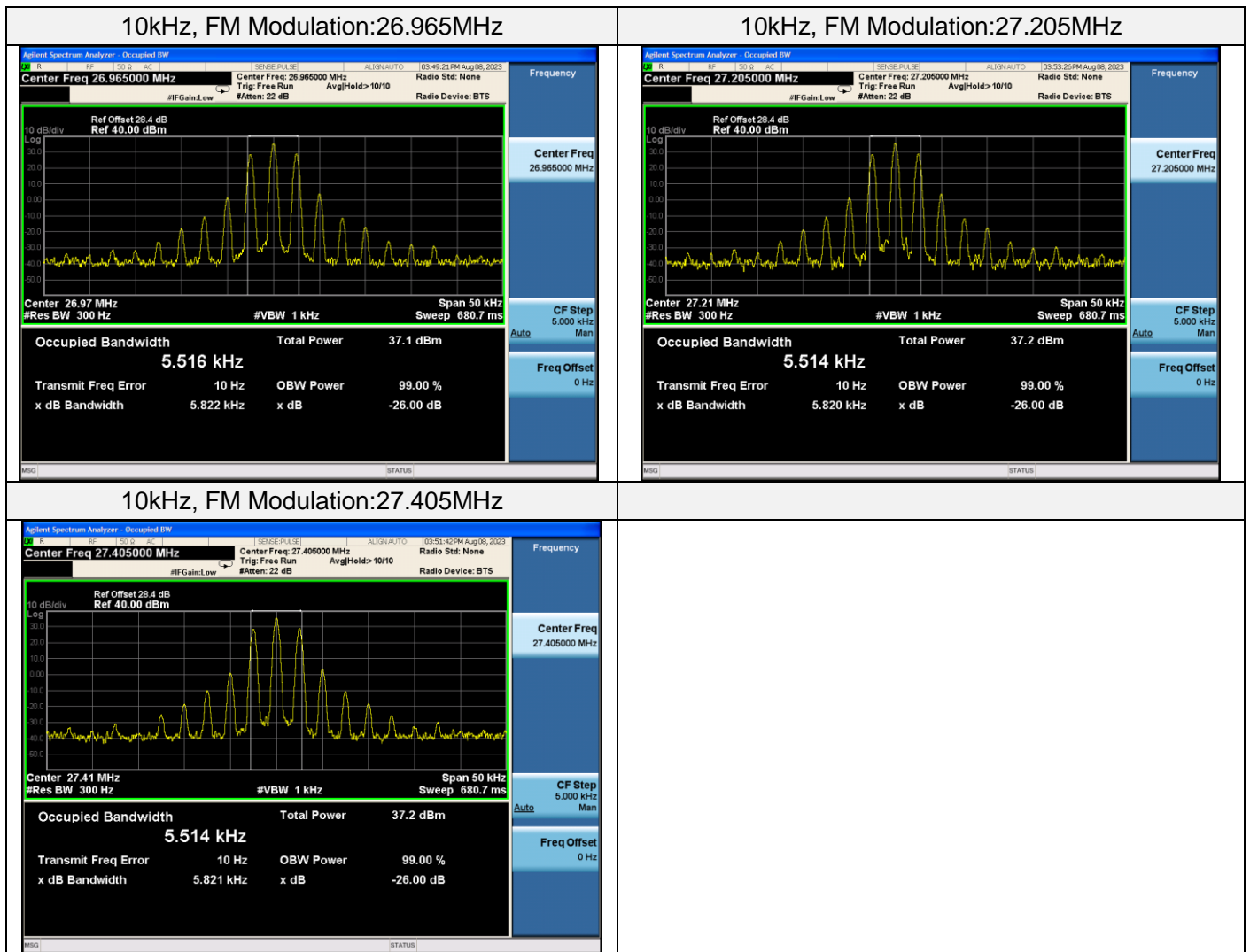
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS DC 24V				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.516 kHz	5.822 kHz	8.0 kHz	Pass
27.205 MHz	5.514 kHz	5.820 kHz	8.0 kHz	Pass
27.405 MHz	5.514 kHz	5.821 kHz	8.0 kHz	Pass

Test plot as follows:



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## 8. RADIATED SPURIOUS EMISSION

### 8.1 PROVISIONS APPLICABLE

FCC Part 95.979(a), FCC Part 2.1049

Each CBRS transmitter type must be designed to comply with the applicable unwanted emissions limits in this section. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

Emission type	Paragraph
A3E, F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)

- (1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency;
- (2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency;
- (3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency;
- (4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency;
- (5)  $53 + 10 \log (P)$  dB in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth.
- (6) 60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.

### 8.2 MEASUREMENT PROCEDURE

1. EUT was placed on a 0.8 or 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made. The radiated emission measurements of all transmit frequencies in all channels were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P<sub>Mea</sub>) is applied to the input of the

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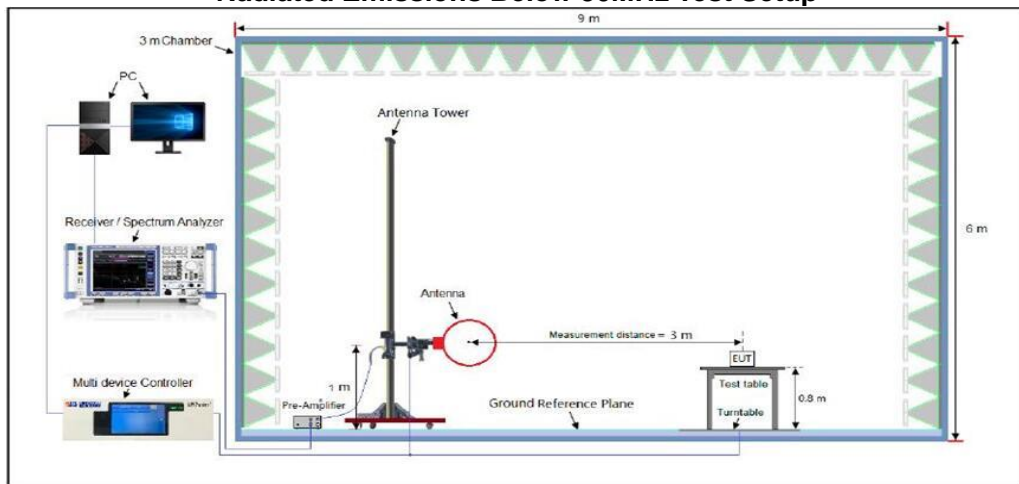


substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

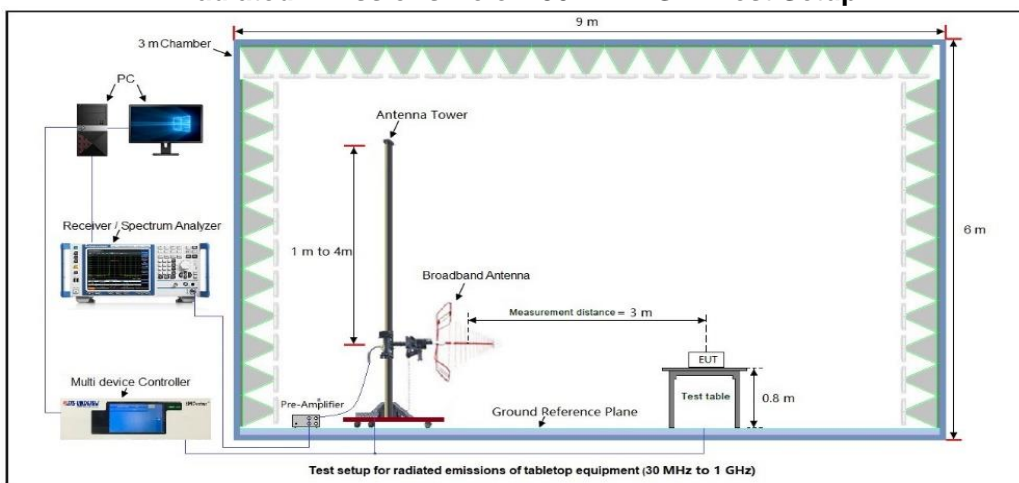
5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test
6. The measurement results are obtained as described below:  $Power(EIRP)=PMea- PAg - Pcl - Ga$  The measurement results are amend as described below: $Power(EIRP)=PMea- Pcl - Ga$
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
8. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP-2.15dBi$ .
9. Test the EUT in the lowest channel, the middle channel the Highest channel

### 8.3 MEASUREMENT SETUP

**Radiated Emissions Below 30MHz Test Setup**

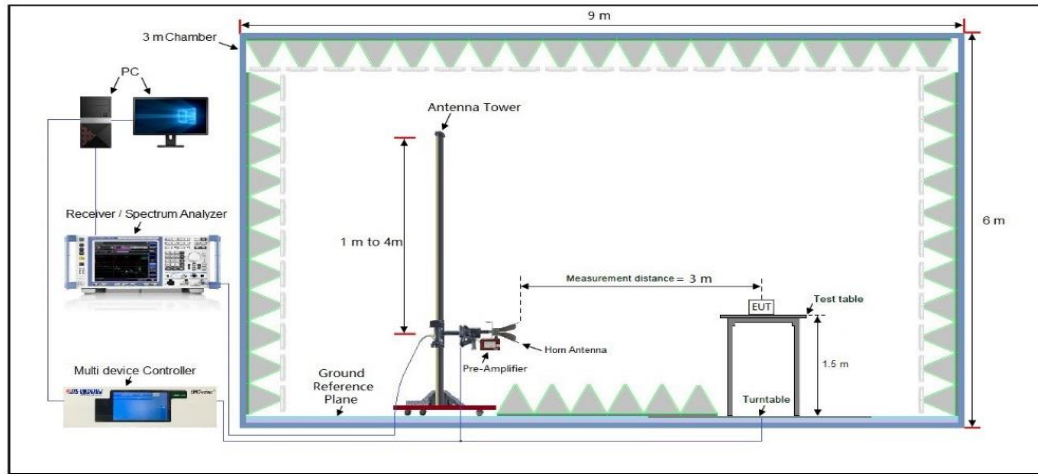


**Radiated Emissions Below 30MHz-1GHz Test Setup**



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### Radiated Emissions Above 1GHz Test Setup



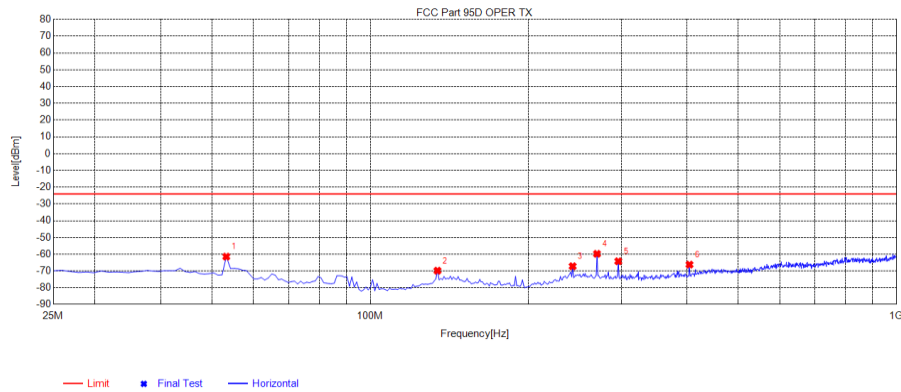
### 8.4 MEASUREMENT RESULTS

Preliminary calculation	Final Result
$P(\text{dBm})=30+10\log【P(\text{W})】=36.02\text{dBm}$	Limit= Preliminary calculation-60dB=-24dBm

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss -Pre-amplifier. (Above 1 GHz)
3. Margin=Limit- Level
4. the unwanted emission should be attenuated below TP by at least 60 dB.
5. In the frequency range of 9KHz-30MHz, in addition to displaying the Fundamental level, the radiated spurious emission level is much less than 60dB of the carrier power, so it is ignored.

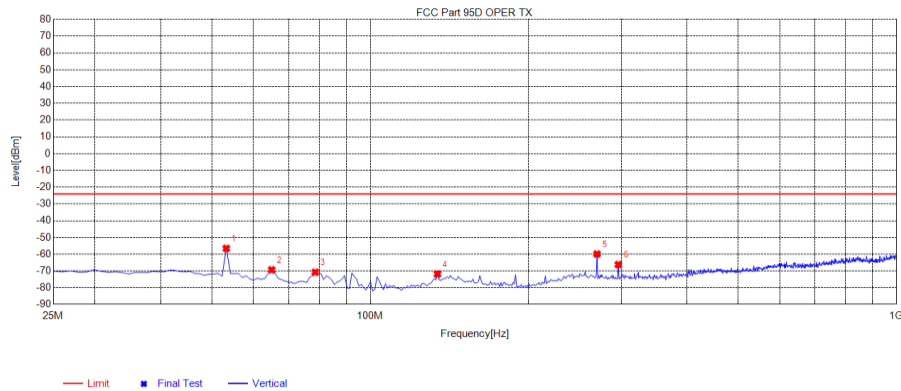
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Test Mode:	TX-CH1-AM-DC 12V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-90.93	-61.45	-24.00	37.45	29.48	250	Horizontal
2	134.2	-96.53	-69.81	-24.00	45.81	26.72	40	Horizontal
3	242.425	-96.74	-67.17	-24.00	43.17	29.57	120	Horizontal
4	269.725	-89.75	-59.77	-24.00	35.77	29.98	350	Horizontal
5	296.05	-93.58	-64.22	-24.00	40.22	29.36	100	Horizontal
6	404.275	-97.37	-66.20	-24.00	42.20	31.17	100	Horizontal

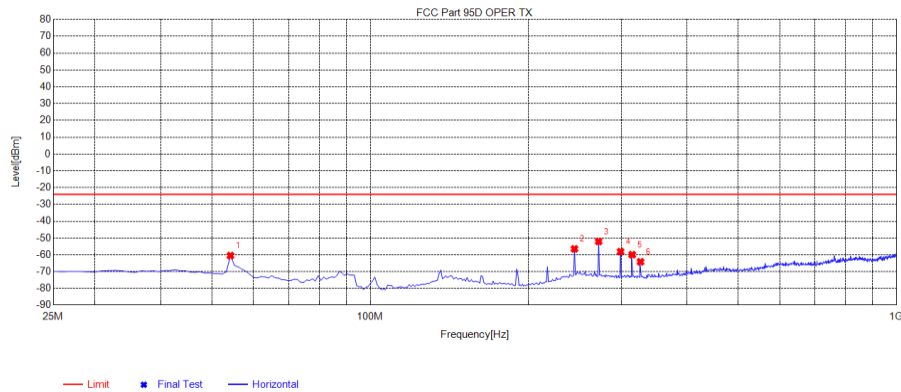
Test Mode:	TX-CH1-AM-DC 12V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-86.01	-56.53	-24.00	32.53	29.48	140	Vertical
2	64.975	-96.05	-69.33	-24.00	45.33	26.72	20	Vertical
3	78.625	-95.69	-70.74	-24.00	46.74	24.95	280	Vertical
4	134.2	-98.55	-71.83	-24.00	47.83	26.72	170	Vertical
5	269.725	-89.85	-59.87	-24.00	35.87	29.98	20	Vertical
6	296.05	-95.54	-66.18	-24.00	42.18	29.36	70	Vertical

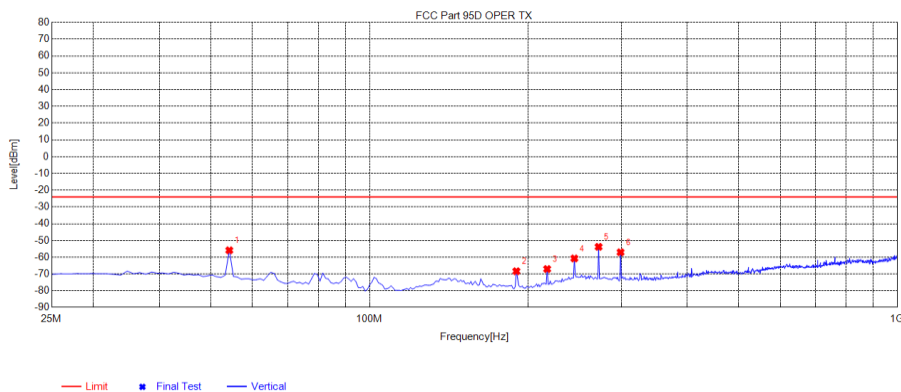
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Test Mode:	TX-CH20-AM-DC 12V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.66	-60.47	-24.00	36.47	29.19	34	Horizontal
2	244.375	-86.25	-56.46	-24.00	32.46	29.79	245	Horizontal
3	271.675	-81.98	-52.04	-24.00	28.04	29.94	102	Horizontal
4	298.975	-87.38	-58.09	-24.00	34.09	29.29	219	Horizontal
5	314.575	-89.21	-59.93	-24.00	35.93	29.28	152	Horizontal
6	326.275	-93.45	-64.17	-24.00	40.17	29.28	270	Horizontal

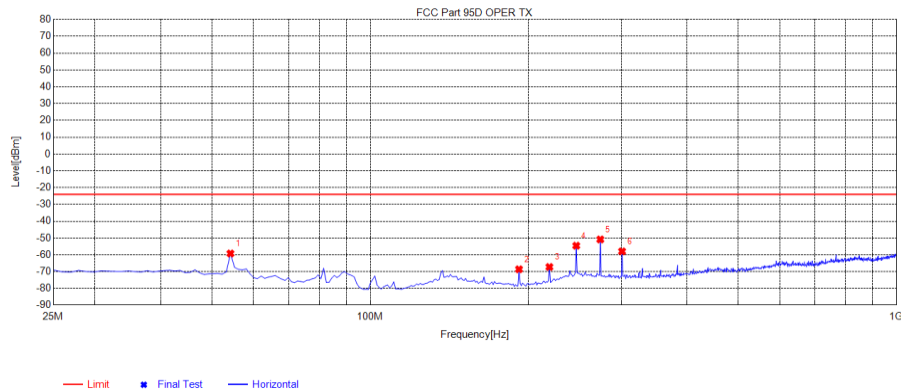
Test Mode:	TX-CH20-AM-DC 12V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-85.06	-55.87	-24.00	31.87	29.19	95	Vertical
2	189.775	-92.88	-68.36	-24.00	44.36	24.52	45	Vertical
3	217.075	-93.63	-67.03	-24.00	43.03	26.60	172	Vertical
4	244.375	-90.53	-60.74	-24.00	36.74	29.79	146	Vertical
5	271.675	-83.75	-53.81	-24.00	29.81	29.94	138	Vertical
6	298.975	-86.33	-57.04	-24.00	33.04	29.29	112	Vertical

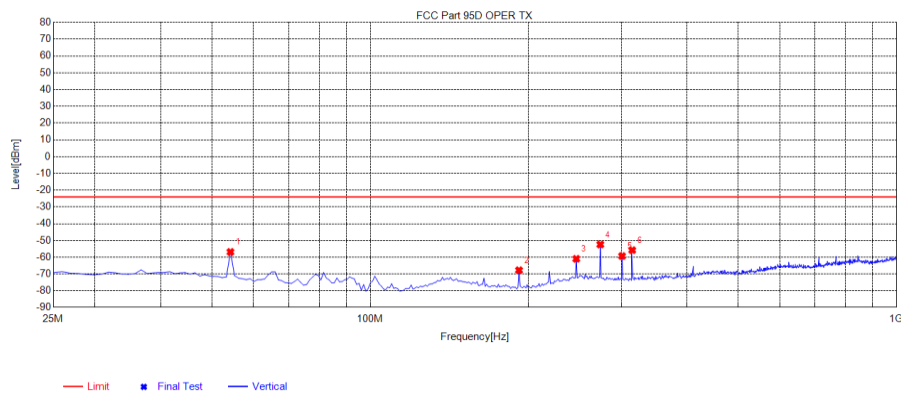
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Test Mode:	TX-CH40-AM-DC 12V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-88.40	-59.21	-24.00	35.21	29.19	19	Horizontal
2	191.725	-93.14	-68.62	-24.00	44.62	24.52	290	Horizontal
3	219.025	-94.07	-67.24	-24.00	43.24	26.83	80	Horizontal
4	246.325	-84.61	-54.59	-24.00	30.59	30.02	97	Horizontal
5	273.625	-80.74	-50.85	-24.00	26.85	29.89	97	Horizontal
6	300.925	-87.23	-57.96	-24.00	33.96	29.27	46	Horizontal

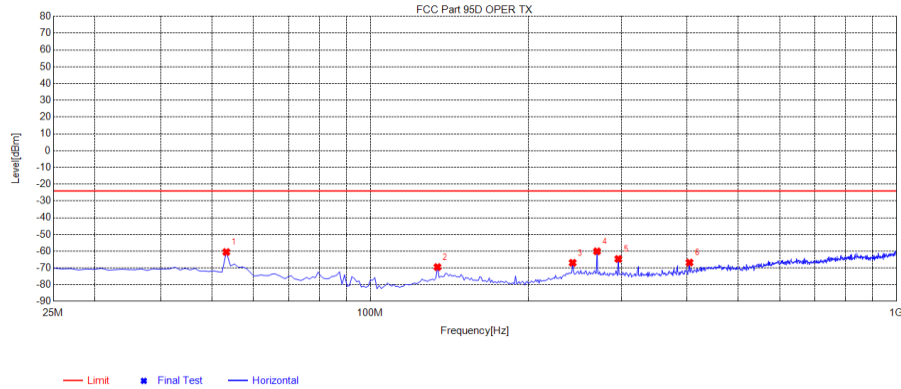
Test Mode:	TX-CH40-AM-DC 12V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.05	-56.86	-24.00	32.86	29.19	276	Vertical
2	191.725	-92.27	-67.75	-24.00	43.75	24.52	284	Vertical
3	246.325	-90.98	-60.96	-24.00	36.96	30.02	140	Vertical
4	273.625	-82.30	-52.41	-24.00	28.41	29.89	200	Vertical
5	300.925	-88.57	-59.30	-24.00	35.30	29.27	166	Vertical
6	314.575	-85.08	-55.80	-24.00	31.80	29.28	158	Vertical

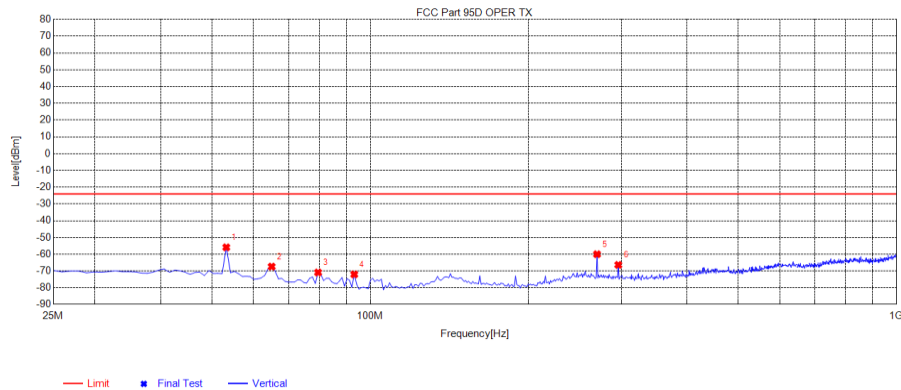
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Test Mode:	TX-CH1-FM-DC 12V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-89.98	-60.50	-24.00	36.50	29.48	220	Horizontal
2	134.2	-96.17	-69.45	-24.00	45.45	26.72	100	Horizontal
3	242.425	-96.47	-66.90	-24.00	42.90	29.57	320	Horizontal
4	269.725	-90.05	-60.07	-24.00	36.07	29.98	70	Horizontal
5	296.05	-93.97	-64.61	-24.00	40.61	29.36	160	Horizontal
6	404.275	-97.95	-66.78	-24.00	42.78	31.17	20	Horizontal

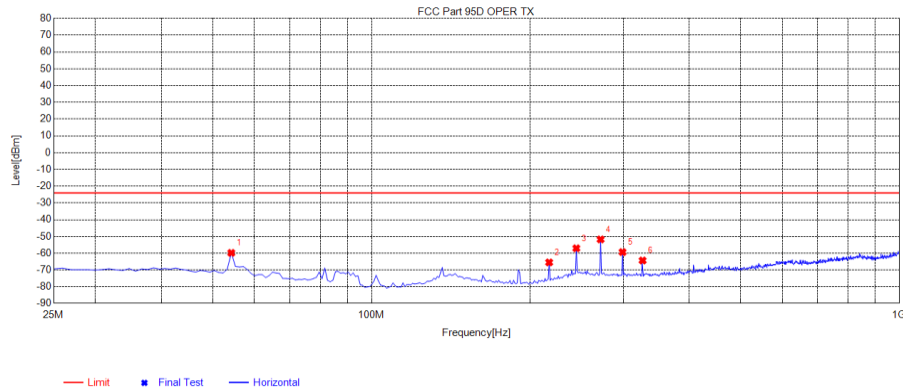
Test Mode:	TX-CH1-FM-DC 12V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-85.37	-55.89	-24.00	31.89	29.48	120	Vertical
2	64.975	-94.10	-67.38	-24.00	43.38	26.72	120	Vertical
3	79.6	-95.73	-70.89	-24.00	46.89	24.84	330	Vertical
4	93.25	-94.08	-72.03	-24.00	48.03	22.05	170	Vertical
5	269.725	-89.99	-60.01	-24.00	36.01	29.98	330	Vertical
6	296.05	-95.73	-66.37	-24.00	42.37	29.36	220	Vertical

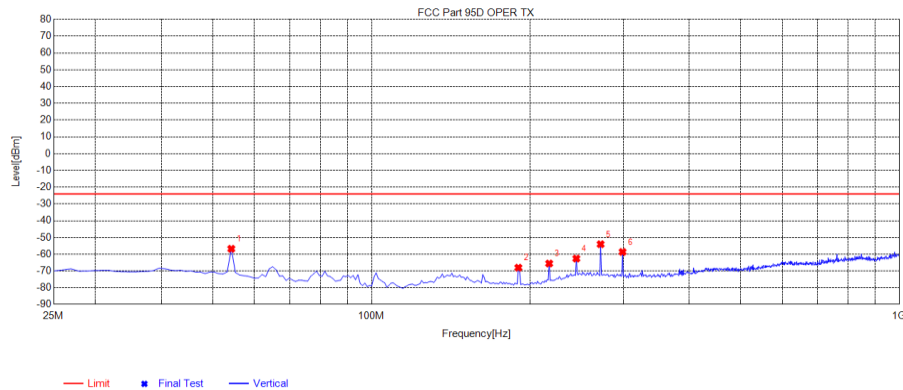
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Test Mode:	TX-CH20-FM-DC 12V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-88.99	-59.80	-24.00	35.80	29.19	42	Horizontal
2	217.075	-92.08	-65.48	-24.00	41.48	26.60	101	Horizontal
3	244.375	-86.85	-57.06	-24.00	33.06	29.79	76	Horizontal
4	271.675	-81.71	-51.77	-24.00	27.77	29.94	93	Horizontal
5	298.975	-88.63	-59.34	-24.00	35.34	29.29	101	Horizontal
6	326.275	-93.63	-64.35	-24.00	40.35	29.28	270	Horizontal

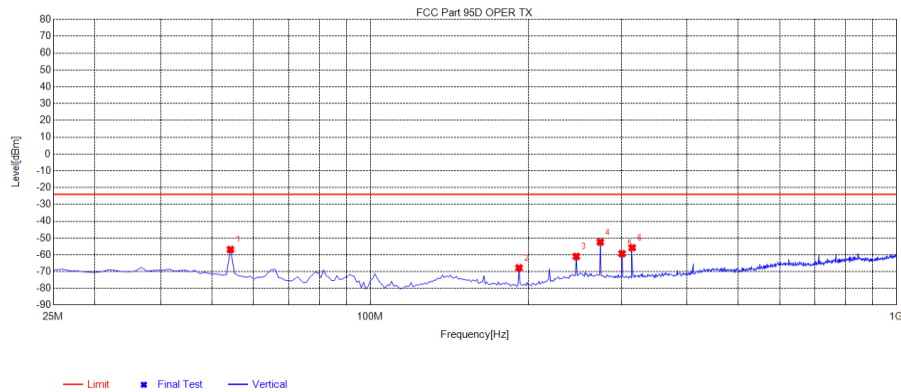
Test Mode:	TX-CH20-FM-DC 12V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-85.95	-56.76	-24.00	32.76	29.19	292	Vertical
2	189.775	-92.55	-68.03	-24.00	44.03	24.52	23	Vertical
3	217.075	-92.14	-65.54	-24.00	41.54	26.60	141	Vertical
4	244.375	-92.41	-62.62	-24.00	38.62	29.79	132	Vertical
5	271.675	-83.98	-54.04	-24.00	30.04	29.94	200	Vertical
6	298.975	-87.94	-58.65	-24.00	34.65	29.29	183	Vertical

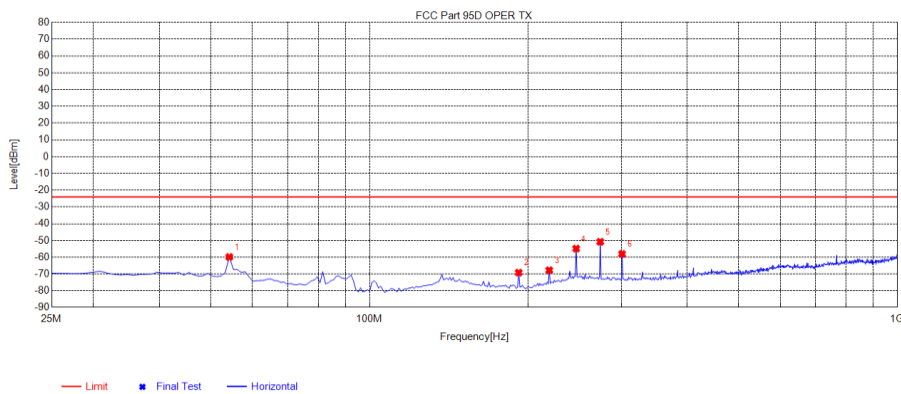
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Test Mode:	TX-CH40-FM-DC 12V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.05	-56.86	-24.00	32.86	29.19	276	Horizontal
2	191.725	-92.27	-67.75	-24.00	43.75	24.52	284	Horizontal
3	246.325	-90.98	-60.96	-24.00	36.96	30.02	140	Horizontal
4	273.625	-82.30	-52.41	-24.00	28.41	29.89	200	Horizontal
5	300.925	-88.57	-59.30	-24.00	35.30	29.27	166	Horizontal
6	314.575	-85.08	-55.80	-24.00	31.80	29.28	158	Horizontal

Test Mode:	TX-CH40-FM-DC 12V	Polarity:	Vertical
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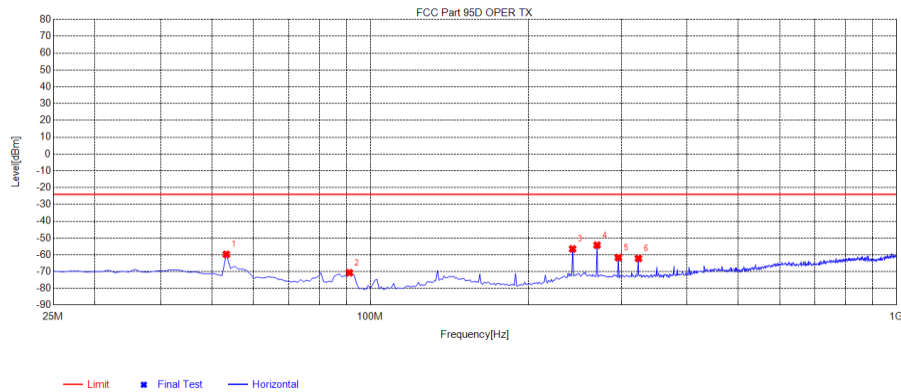


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.05	-59.86	-24.00	35.86	29.19	17	Vertical
2	191.725	-93.69	-69.17	-24.00	45.17	24.52	279	Vertical
3	219.025	-94.58	-67.75	-24.00	43.75	26.83	102	Vertical
4	246.325	-84.88	-54.86	-24.00	30.86	30.02	94	Vertical
5	273.625	-80.69	-50.80	-24.00	26.80	29.89	94	Vertical
6	300.925	-87.32	-58.05	-24.00	34.05	29.27	34	Vertical

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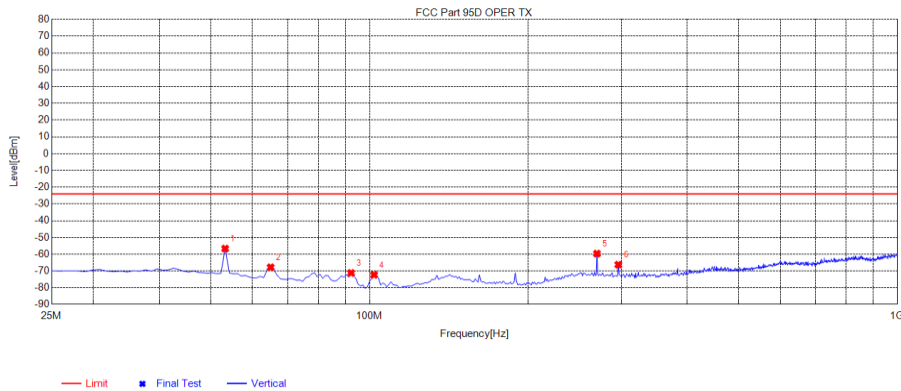


Test Mode:	TX-CH1-AM-DC 24V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-89.23	-59.75	-24.00	35.75	29.48	189	Horizontal
2	91.3	-93.02	-70.69	-24.00	46.69	22.33	162	Horizontal
3	242.425	-86.06	-56.49	-24.00	32.49	29.57	93	Horizontal
4	269.725	-84.25	-54.27	-24.00	30.27	29.98	215	Horizontal
5	296.05	-91.02	-61.66	-24.00	37.66	29.36	241	Horizontal
6	323.35	-91.45	-62.17	-24.00	38.17	29.28	241	Horizontal

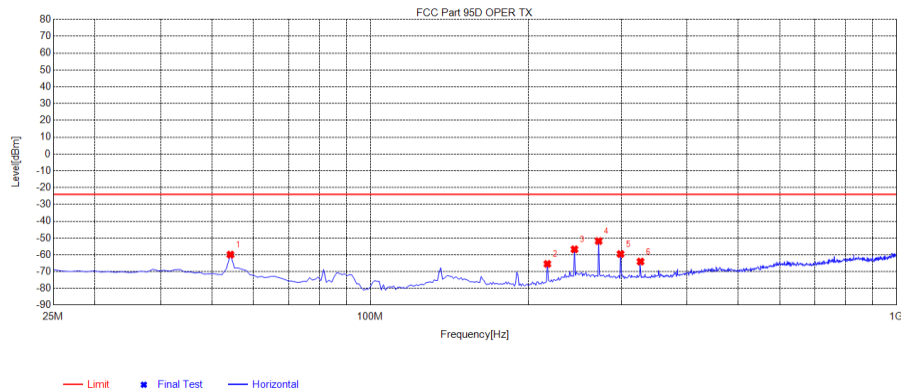
Test Mode:	TX-CH1-AM-DC 24V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-86.12	-56.64	-24.00	32.64	29.48	342	Vertical
2	64.975	-94.51	-67.79	-24.00	43.79	26.72	4	Vertical
3	92.275	-93.36	-71.17	-24.00	47.17	22.19	28	Vertical
4	102.025	-93.41	-72.29	-24.00	48.29	21.12	215	Vertical
5	269.725	-89.61	-59.63	-24.00	35.63	29.98	342	Vertical
6	296.05	-95.59	-66.23	-24.00	42.23	29.36	350	Vertical

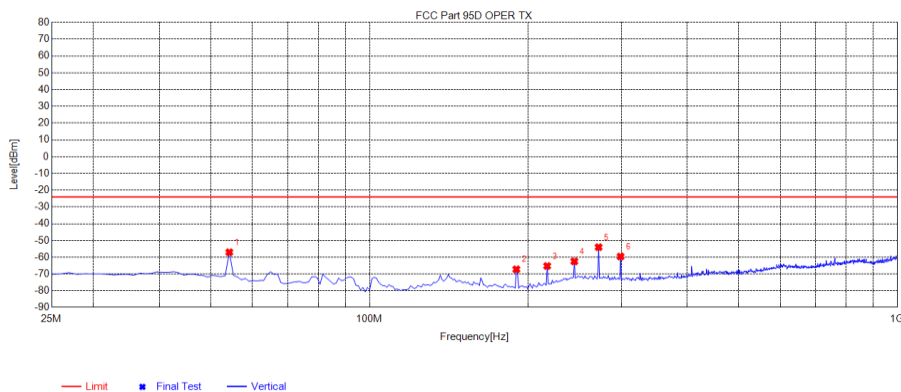
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Test Mode:	TX-CH20-AM-DC 24V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.08	-59.89	-24.00	35.89	29.19	10	Horizontal
2	217.075	-92.02	-65.42	-24.00	41.42	26.60	106	Horizontal
3	244.375	-86.53	-56.74	-24.00	32.74	29.79	89	Horizontal
4	271.675	-81.75	-51.81	-24.00	27.81	29.94	89	Horizontal
5	298.975	-88.82	-59.53	-24.00	35.53	29.29	106	Horizontal
6	326.275	-93.30	-64.02	-24.00	40.02	29.28	268	Horizontal

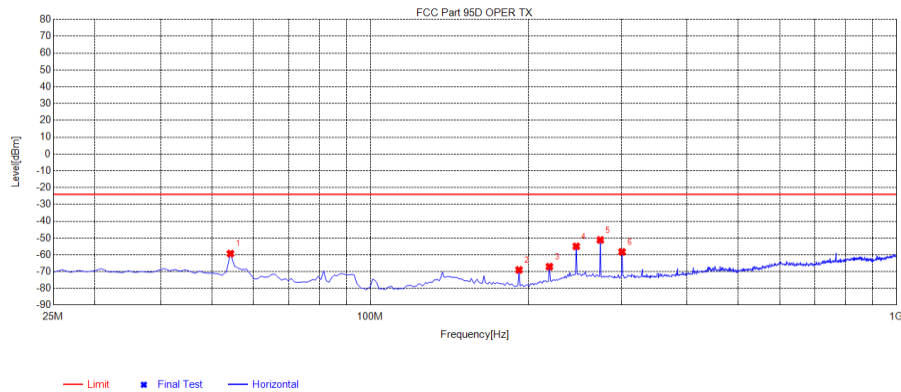
Test Mode:	TX-CH20-AM-DC 24V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.22	-57.03	-24.00	33.03	29.19	284	Vertical
2	189.775	-91.74	-67.22	-24.00	43.22	24.52	39	Vertical
3	217.075	-91.84	-65.24	-24.00	41.24	26.60	149	Vertical
4	244.375	-92.28	-62.49	-24.00	38.49	29.79	115	Vertical
5	271.675	-83.96	-54.02	-24.00	30.02	29.94	208	Vertical
6	298.975	-88.86	-59.57	-24.00	35.57	29.29	183	Vertical

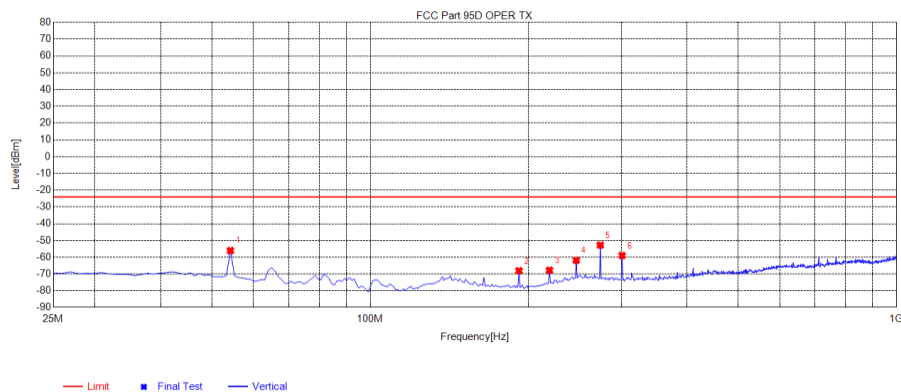
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Test Mode:	TX-CH40-AM-DC 24V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-88.47	-59.28	-24.00	35.28	29.19	53	Horizontal
2	191.725	-93.51	-68.99	-24.00	44.99	24.52	299	Horizontal
3	219.025	-93.88	-67.05	-24.00	43.05	26.83	88	Horizontal
4	246.325	-84.98	-54.96	-24.00	30.96	30.02	96	Horizontal
5	273.625	-81.05	-51.16	-24.00	27.16	29.89	96	Horizontal
6	300.925	-87.55	-58.28	-24.00	34.28	29.27	53	Horizontal

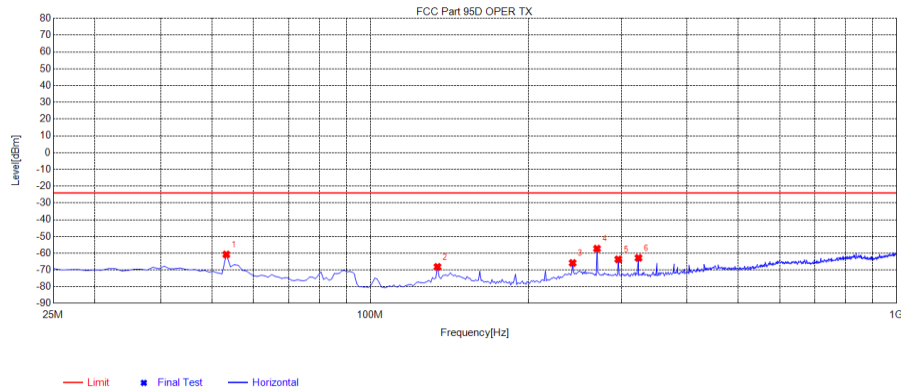
Test Mode:	TX-CH40-AM-DC 24V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-85.23	-56.04	-24.00	32.04	29.19	292	Vertical
2	191.725	-92.61	-68.09	-24.00	44.09	24.52	301	Vertical
3	219.025	-94.61	-67.78	-24.00	43.78	26.83	139	Vertical
4	246.325	-91.89	-61.87	-24.00	37.87	30.02	139	Vertical
5	273.625	-82.67	-52.78	-24.00	28.78	29.89	215	Vertical
6	300.925	-88.27	-59.00	-24.00	35.00	29.27	173	Vertical

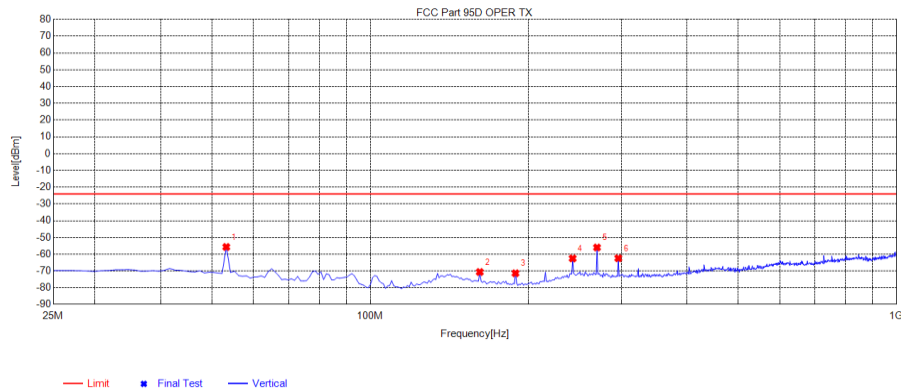
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Test Mode:	TX-CH1-FM-DC 24V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-90.24	-60.76	-24.00	36.76	29.48	351	Horizontal
2	134.2	-94.86	-68.14	-24.00	44.14	26.72	259	Horizontal
3	242.425	-95.39	-65.82	-24.00	41.82	29.57	301	Horizontal
4	269.725	-87.24	-57.26	-24.00	33.26	29.98	217	Horizontal
5	296.05	-93.02	-63.66	-24.00	39.66	29.36	242	Horizontal
6	323.35	-92.10	-62.82	-24.00	38.82	29.28	250	Horizontal

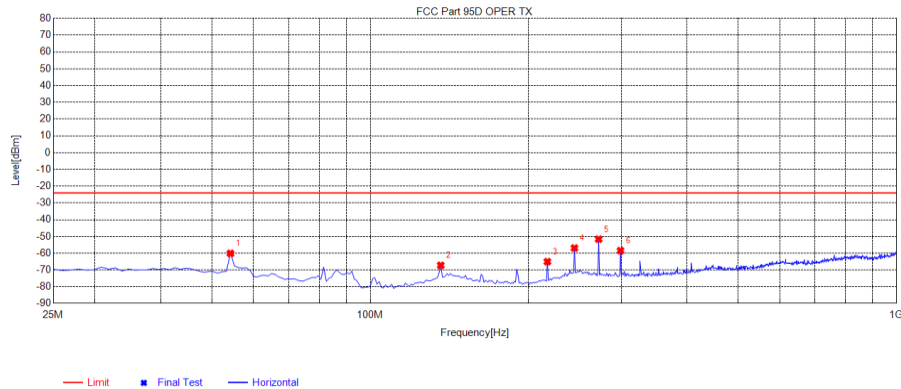
Test Mode:	TX-CH1-FM-DC 24V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-85.16	-55.68	-24.00	31.68	29.48	276	Vertical
2	161.5	-96.44	-70.61	-24.00	46.61	25.83	301	Vertical
3	188.8	-95.93	-71.34	-24.00	47.34	24.59	343	Vertical
4	242.425	-92.09	-62.52	-24.00	38.52	29.57	140	Vertical
5	269.725	-85.96	-55.98	-24.00	31.98	29.98	208	Vertical
6	296.05	-91.77	-62.41	-24.00	38.41	29.36	191	Vertical

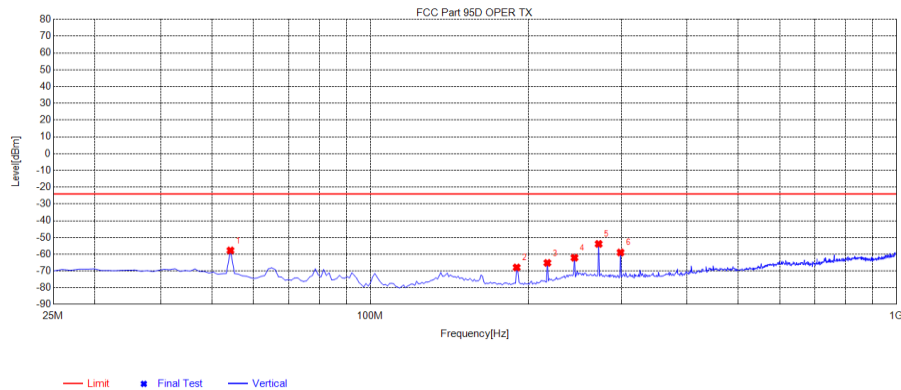
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Test Mode:	TX-CH20-FM-DC 24V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.28	-60.09	-24.00	36.09	29.19	35	Horizontal
2	136.15	-94.56	-67.23	-24.00	43.23	27.33	282	Horizontal
3	217.075	-91.65	-65.05	-24.00	41.05	26.60	86	Horizontal
4	244.375	-86.70	-56.91	-24.00	32.91	29.79	77	Horizontal
5	271.675	-81.55	-51.61	-24.00	27.61	29.94	94	Horizontal
6	298.975	-87.76	-58.47	-24.00	34.47	29.29	102	Horizontal

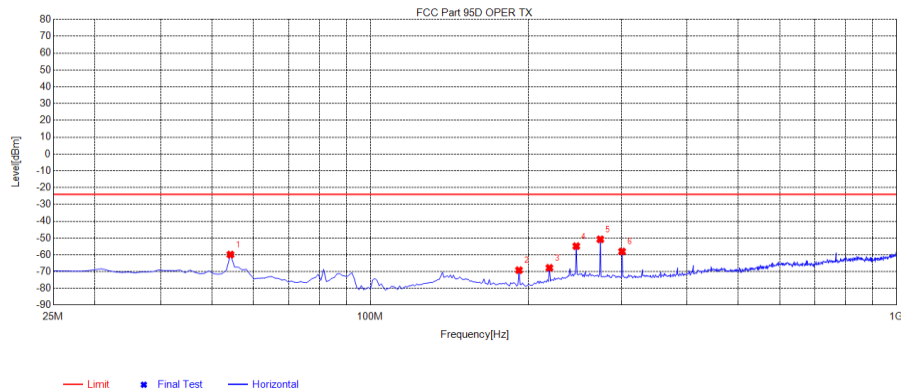
Test Mode:	TX-CH20-FM-DC 24V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.94	-57.75	-24.00	33.75	29.19	284	Vertical
2	189.775	-92.41	-67.89	-24.00	43.89	24.52	39	Vertical
3	217.075	-91.78	-65.18	-24.00	41.18	26.60	141	Vertical
4	244.375	-91.88	-62.09	-24.00	38.09	29.79	141	Vertical
5	271.675	-83.81	-53.87	-24.00	29.87	29.94	217	Vertical
6	298.975	-88.25	-58.96	-24.00	34.96	29.29	191	Vertical

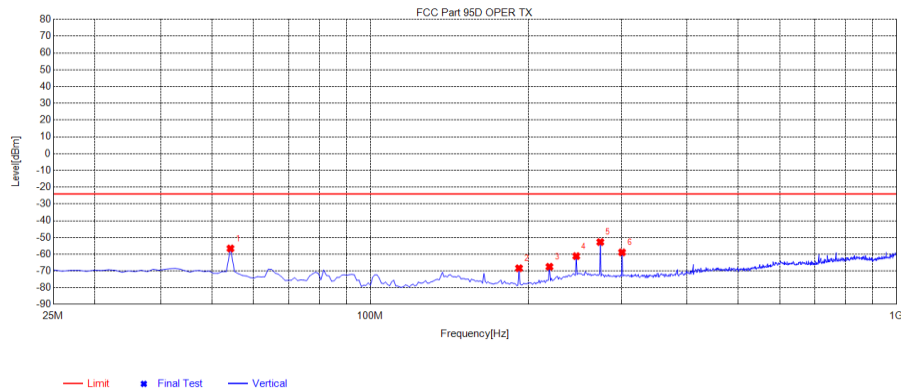
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Test Mode:	TX-CH40-FM-DC 24V	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.05	-59.86	-24.00	35.86	29.19	17	Horizontal
2	191.725	-93.69	-69.17	-24.00	45.17	24.52	279	Horizontal
3	219.025	-94.58	-67.75	-24.00	43.75	26.83	102	Horizontal
4	246.325	-84.88	-54.86	-24.00	30.86	30.02	94	Horizontal
5	273.625	-80.69	-50.80	-24.00	26.80	29.89	94	Horizontal
6	300.925	-87.32	-58.05	-24.00	34.05	29.27	34	Horizontal

Test Mode:	TX-CH40-FM-DC 24V	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-85.76	-56.57	-24.00	32.57	29.19	284	Vertical
2	191.725	-92.88	-68.36	-24.00	44.36	24.52	293	Vertical
3	219.025	-94.30	-67.47	-24.00	43.47	26.83	158	Vertical
4	246.325	-91.16	-61.14	-24.00	37.14	30.02	149	Vertical
5	273.625	-82.64	-52.75	-24.00	28.75	29.89	209	Vertical
6	300.925	-88.18	-58.91	-24.00	34.91	29.27	166	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.

### 8.5 EMISSION MASK PLOT

The detailed procedure employed for Emission Mask measurements are specified as following:

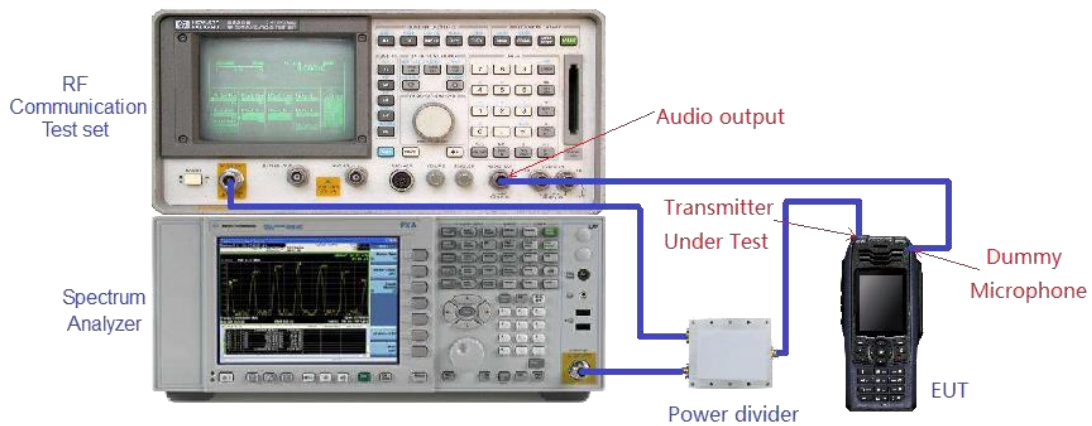
-Connect the equipment as illustrated.

-Spectrum set as follow:

1. Centre frequency = fundamental frequency, Span=60kHz for 10kHz , RBW=300Hz, VBW=1000Hz ;
2. Sweep = auto, Detector function = peak, Trace = max hold
3. Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0dB reference for the measurement.
4. Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation

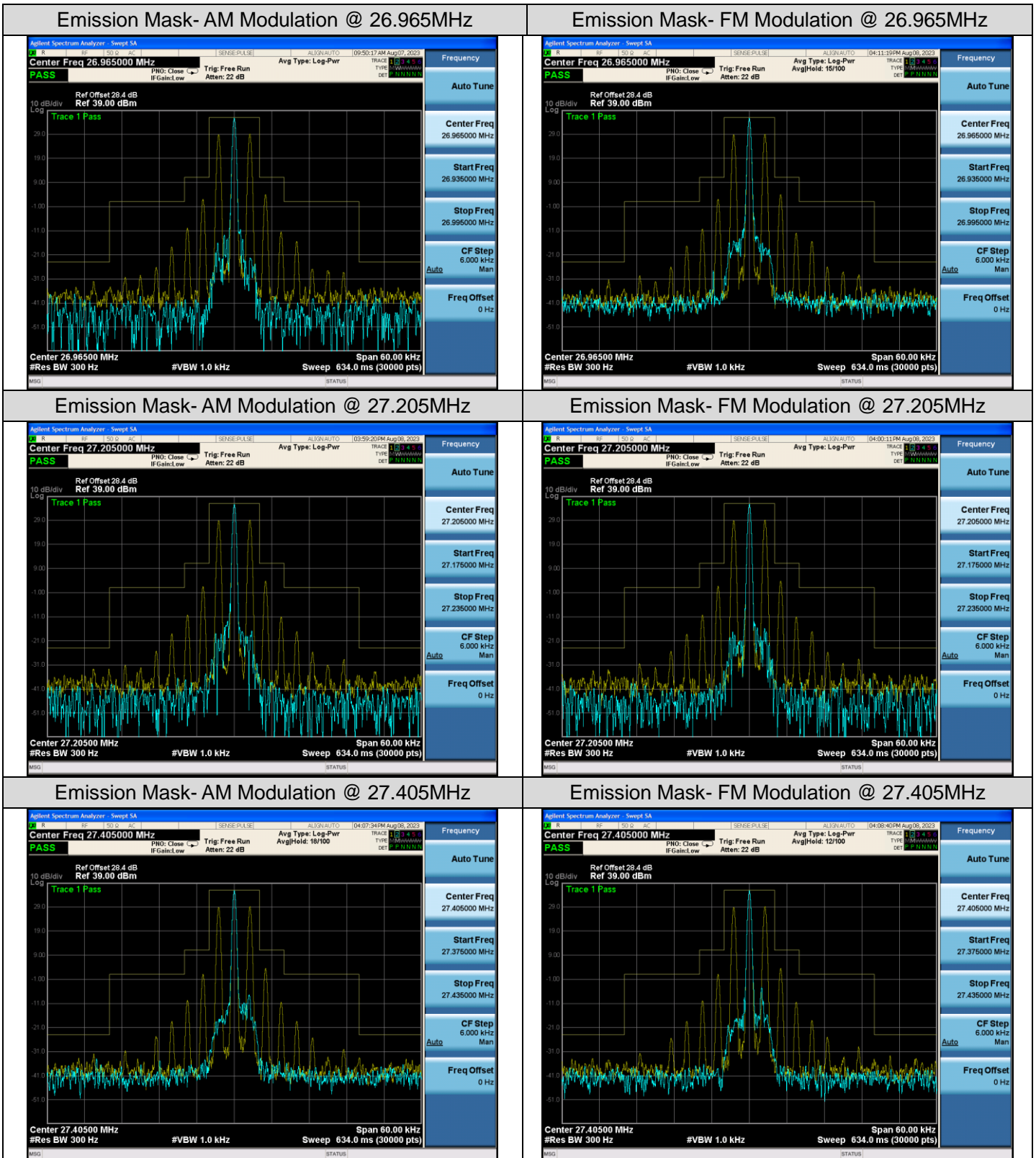
The input level shall be established at the frequency of maximum response of the audio modulating circuit.

5. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
6. Measure and record the results in the test report.



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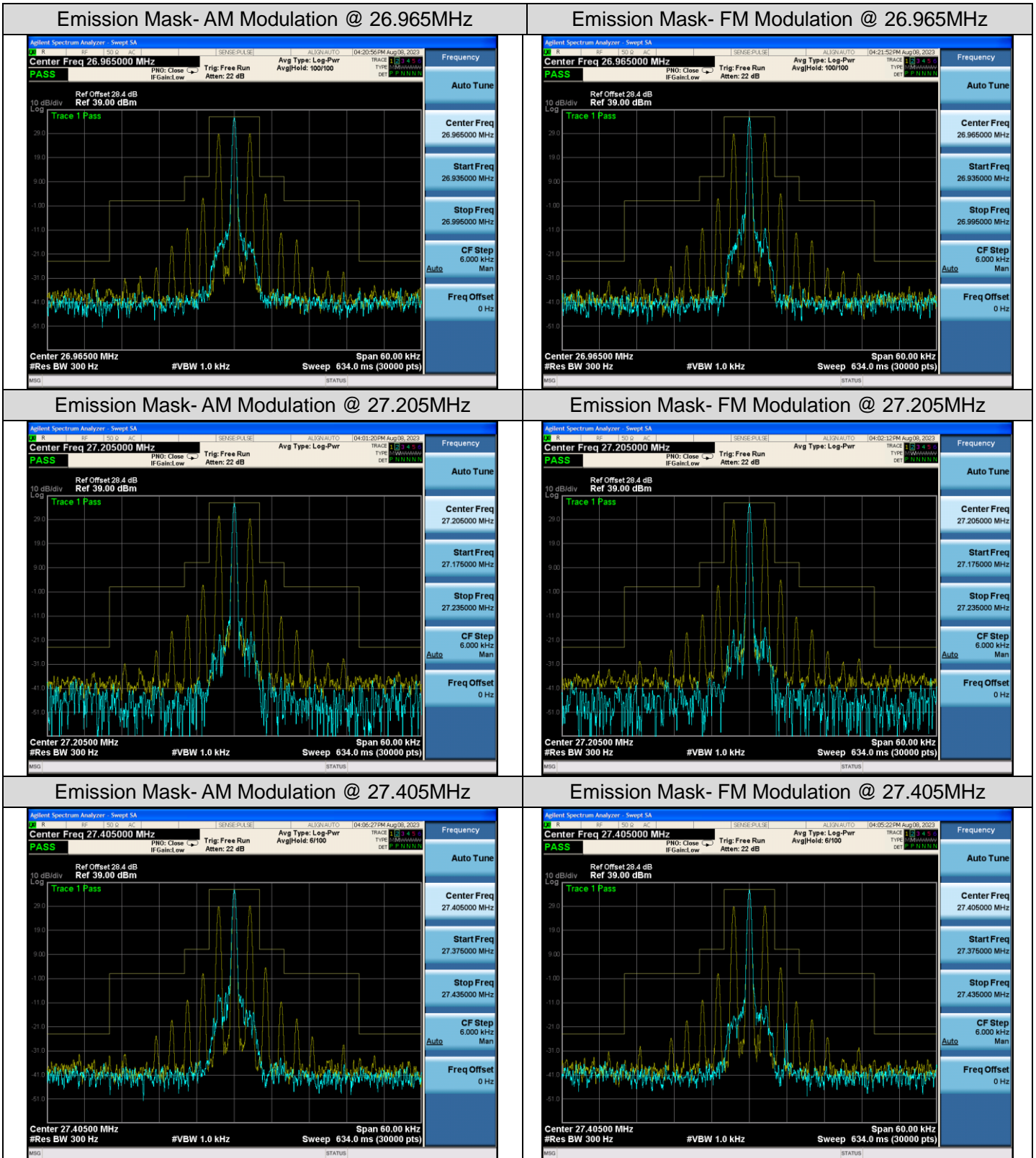
Test plot as follows:  
DC 12V:



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DC 24V:



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## 9. SPURIOUS EMISSION ON ANTENNA PORT

### 9.1 PROVISIONS APPLICABLE

Please refer to FCC 47 CFR 2.1051, 2.1057 & 95.979 for specification details.

Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 95.979	At least 53 + 10 log (P) dB
§ 95.979	60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.

$53 + 10 \log (P_{\text{watts}})$

Calculation: Limit (dBm) = EL - 53 - 10 log<sub>10</sub> (TP)

Notes: EL is the emission level of the Output Power expressed in dBm, In this application, the EL is P (dBm).

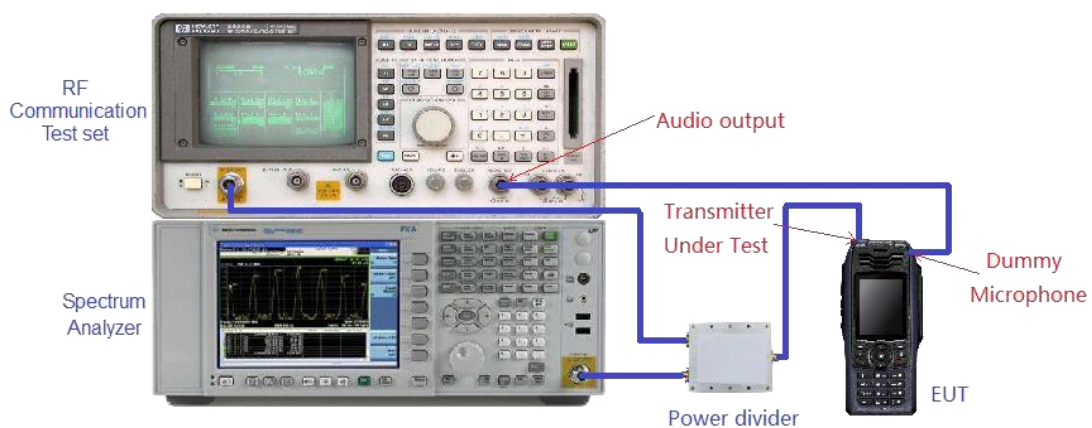
Limit (dBm) = P (dBm) - 53 - 10 log (Pwatts) = -23 dBm

Note: Unwanted spurious limit is -23dBm, and the main wave frequency multiplication limit is -24dBm. After evaluation, a stricter limit of -24dBm is used to evaluate unwanted spurious and main wave frequency multiplication.

### 9.2 MEASUREMENT METHOD

1. The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to
3. show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
4. Set RBW 1 kHz, VBW 3 kHz in the frequency band 9KHz to 150KHz;  
Set RBW 10 kHz, VBW 30 kHz in the frequency band 150KHz to 20MHz;  
Set RBW 100 kHz, VBW 300 kHz in the frequency band 20MHz to 1GHz;  
While set RBW=1MHz.VBW=3MHz from the 1GHz to 10th Harmonic.
5. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

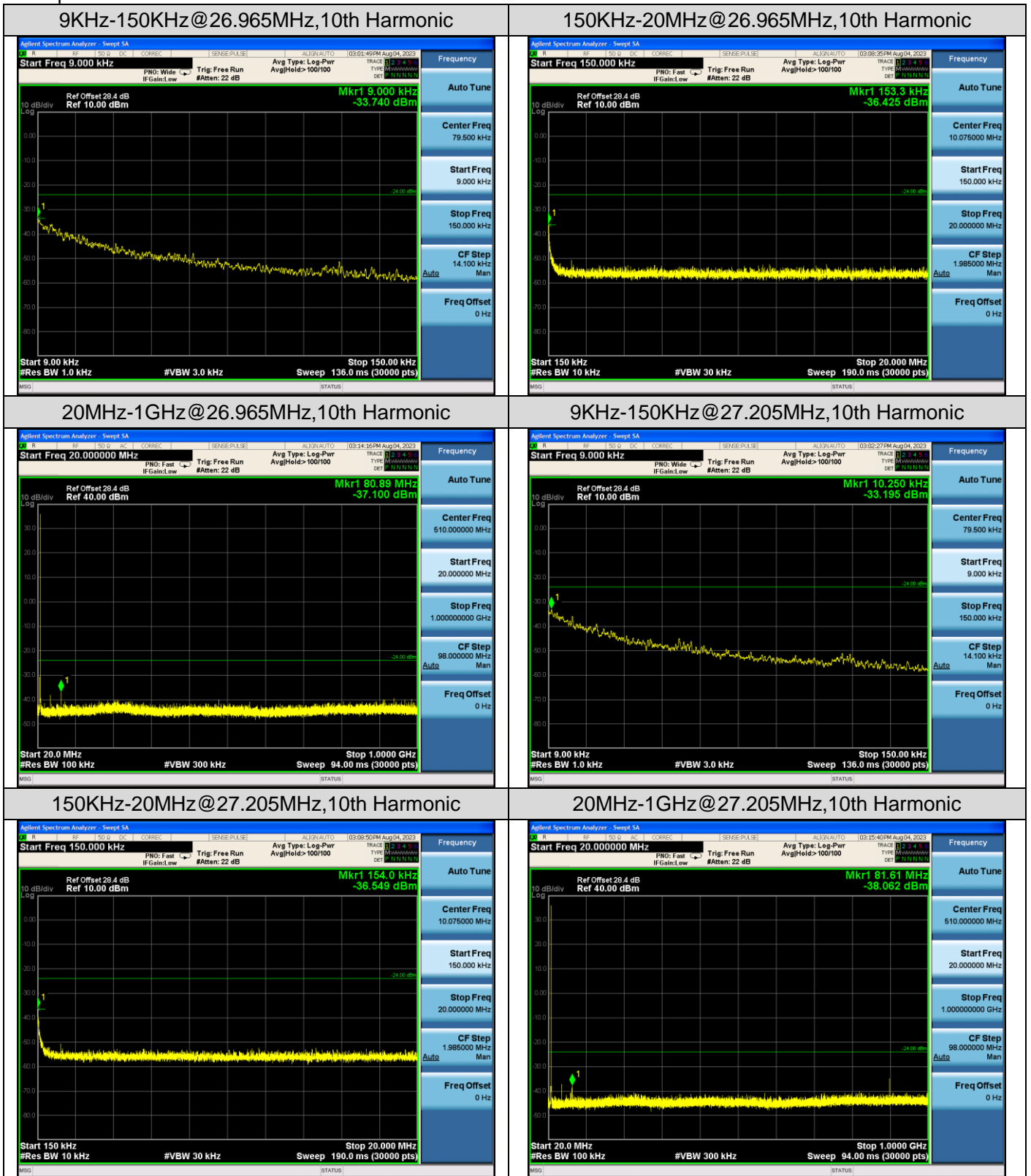
### 9.3 MEASUREMENT SETUP



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### 9.4 MEASUREMENT RESULTS

Test plot as follows: DC 12V AM Modulation



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