
FCC Test Report

Report No.: AGC09626231201FR03

FCC ID : Q9SAWR4002DU

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Two-way radio

BRAND NAME : AWC

MODEL NAME : AWR4000DU, AWR4002DU

APPLICANT : Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications

DATE OF ISSUE : Jan. 09, 2024

STANDARD(S) : FCC Part 90 Subpart I

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 09, 2024	Valid	Initial Release

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1. General Information

Applicant	Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications
Address	20809 Kensington Blvd. Lakeville MN 55044 United States Of America
Manufacturer	Northfield Telecommunications, Inc. d/b/a Advanced Wireless Communications
Address	20809 Kensington Blvd. Lakeville MN 55044 United States Of America
Factory	Shenzhen Surwave Technologies Co., LTD
Address	Huolibao Building West, No31, Gaoxinbei Rd.6, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
Product Designation	Two-way radio
Brand Name	AWC
Test Model	AWR4000DU
Series Model(s)	AWR4002DU
Difference Description	Different colors and model names
Date of receipt of test item	Dec. 14, 2023
Date of Test	Dec. 14, 2023~Jan. 09, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-PMR-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	_____ Bibo Zhang (Project Engineer)	Jan. 09, 2024
Reviewed By		
	_____ Calvin Liu (Reviewer)	Jan. 09, 2024
Approved By		
	_____ Max Zhang Authorized Officer	Jan. 09, 2024

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2. Product Information

2.1 Product Technical Description

Communication Type	Voice / Data (Voice /Tone only)	
Operation Frequency Range	450MHz to 470MHz	
Hardware Version	V03	
Software Version	V1.2.8.1103	
Modulation Type	Analog Voice:	FM
	Digital (Voice + Data):	4FSK
Digital Type	DMR	
Channel Separation	Analog Voice:	12.5 kHz
	Digital (Voice + Data):	12.5 kHz
Support Data Rate	9600bps	
Emission Designator	Analog Voice:	11K0F3E
	Digital (Voice + Data):	7K36F1D/7K36F1W
Rated Output Power	2W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	31.65dBm-Analog	31.99dBm-Digital
Antenna Designation	Inseparable Antenna	
Antenna Gain	1.0dBi	
Frequency Tolerance	1.086ppm	
Power Supply	DC 3.7V by battery	
Adapter Information	Input: AC 100-240V 50/60Hz, 0.2A OUTPUT: DC 5.9V 0.8A	
Charger Information	Input: DC 5.9V 0.8A OUTPUT: DC 4.2V	

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: 450-470MHz. 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: 450-470MHz

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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	450-470MHz	Bottom	450.025 MHz
	12.5 kHz	450-470MHz	Middle	453.2125 MHz
	12.5 kHz	450-470MHz	Middle	458.2125 MHz
	12.5 kHz	450-470MHz	Top	469.975 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: **Q9SAWR4002DU**, 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-102.CAAA-E	Project 25 Digital C4FM/CQPSK Transceiver Measurement Methods
4	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
7	KDB 579009 D03	KDB 579009 D03 Applications Part 90 Refarming Bands v01
8	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 Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1W

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

F1D and F1W portion of the designator indicates digital information.

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

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 follow 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 follow 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(CAB identifier: CN0063)

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.

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 3.7V	LV DC 3.15V/HV DC 4.2V

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 Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-ER-E086	Spectrum Analyzer	KEYSIGHT	N9020A	MY53300860	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-EM-E002	Wireless Connectivity Tester	HP	8920B	US35010161	2023-06-02	2024-06-01
<input type="checkbox"/>	AGC-EM-E001	Digital Connectivity Tester	Aeroflex	3920B	N/A	2023-06-02	2024-06-01
<input checked="" type="checkbox"/>	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2023-03-03	2024-03-02
<input checked="" type="checkbox"/>	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2022-08-03	2024-08-02
<input checked="" type="checkbox"/>	AGC-EM-A007	30dB Attenuator	Weinachel	58-30-33	ML030	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-EM-E040	Directional coupler	Werlatone	C5571-10	99463	2022-03-10	2024-03-09
<input checked="" type="checkbox"/>	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
<input checked="" type="checkbox"/>	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17
<input checked="" type="checkbox"/>	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
<input checked="" type="checkbox"/>	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2023-07-05	2024-07-04
<input checked="" type="checkbox"/>	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11
<input checked="" type="checkbox"/>	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
<input checked="" type="checkbox"/>	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2023-01-05	2024-01-04
<input checked="" type="checkbox"/>	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22
<input checked="" type="checkbox"/>	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2023-06-03	2024-06-02
<input type="checkbox"/>	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-11-13	2024-11-12
<input checked="" type="checkbox"/>	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
<input type="checkbox"/>	AGC-EM-E021	Pre-amplifier	MITEQ	AM-4A-000115	1465421	2022-06-08	2024-06-07
<input checked="" type="checkbox"/>	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2023-06-01	2024-05-31
<input type="checkbox"/>	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
<input checked="" type="checkbox"/>	AGC-EM-A088	UHF Filter	N/A	N/A	N/A	2023-06-01	2024-05-31
<input type="checkbox"/>	AGC-EM-A089	VHF Filter	N/A	N/A	N/A	2023-06-01	2024-05-31
<input type="checkbox"/>	AGC-EM-E110	Low Pass Filter	N/A	N/A	N/A	2023-06-01	2024-05-31

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	AGC-EM-S004	RE Test System	Tonscend	TS ⁺ Ver2.1(JS32-RE)	4.0.0.0

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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

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	50ohm Load	N/A	Amphenol	DC-3G, Max.50W	N/A

Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Adapter	KT05W059080 USD	N/A	Input: 100-240V 50/60Hz, 0.2A Output: DC 5.9V 0.8A	1.0m unshielded
2	Charger	AWSC-4000	N/A	Input: DC 5.9V 800mA Output: DC 4.2V	N/A
3	Battery	AWB-4002	N/A	DC 3.7V 1820mAh	N/A
4	Back Clip	N/A	N/A	N/A	N/A

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4.5 Summary of Test Results

Item	FCC Rules	Description Of Test	Result
1	47 CFR 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	26dB Emission Bandwidth and 99% 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 Radiated Emission	Pass

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5. Description of Test Modes

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

No.	Test Mode Description	Channel Separation
1	TX Bottom channel-UHF	12.5 kHz
2	TX Middle channel-UHF	12.5 kHz
3	TX Middle channel-UHF	12.5 kHz
4	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 manufacture.
5. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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6. Frequency Stability

6.1 Provisions Applicable

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

6.2 Measurement Procedure

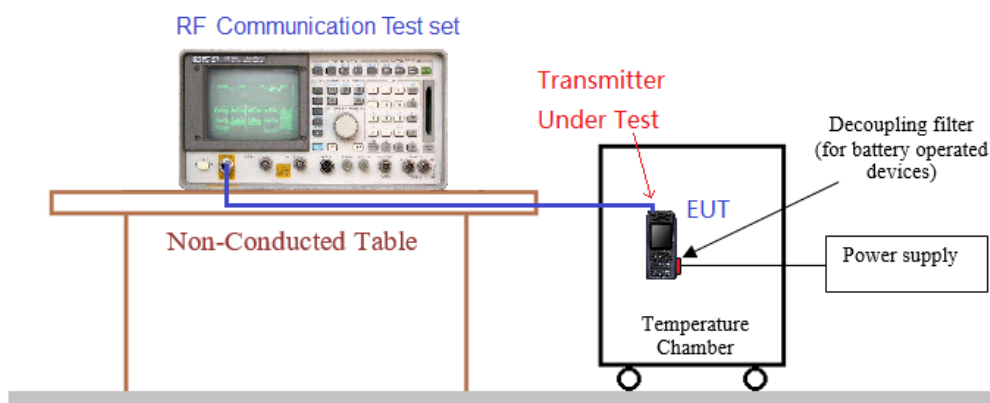
6.2.1 Frequency stability versus environmental temperature

- Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
- Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1kHz and Video Resolution Bandwidth to 1kHz and Frequency Span to 50kHz. Record this frequency as reference frequency.
- Set the temperature of chamber to 50°C . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- Repeat step 2 with a 10°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

- 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 3.7V.
- Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 kHz and Video Resolution Bandwidth to 1kHz. Record this frequency as reference frequency.
- Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

6.3 Measurement Setup



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6.4 Measurement Result

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For UHF							
Test conditions		Frequency error (ppm)				Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)					
		450.025	453.2125	458.2125	469.975		
3.70	-30	0.413	0.653	1.079	0.561	2.5	Pass
	-20	0.911	0.909	0.765	0.514		
	-10	0.891	0.601	0.732	0.801		
	0	0.543	1.084	0.650	0.412		
	10	0.828	1.010	0.991	0.908		
	20	1.020	1.086	0.607	0.848		
	30	0.829	0.665	0.746	0.940		
	40	0.566	1.065	0.845	0.419		
	50	0.643	0.952	0.761	0.517		
4.20	20	0.999	0.710	0.864	0.814		
3.15	20	0.643	0.611	1.003	0.899		

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7. 26dB Emission Bandwidth and 99% Occupied Bandwidth

7.1 Provisions Applicable

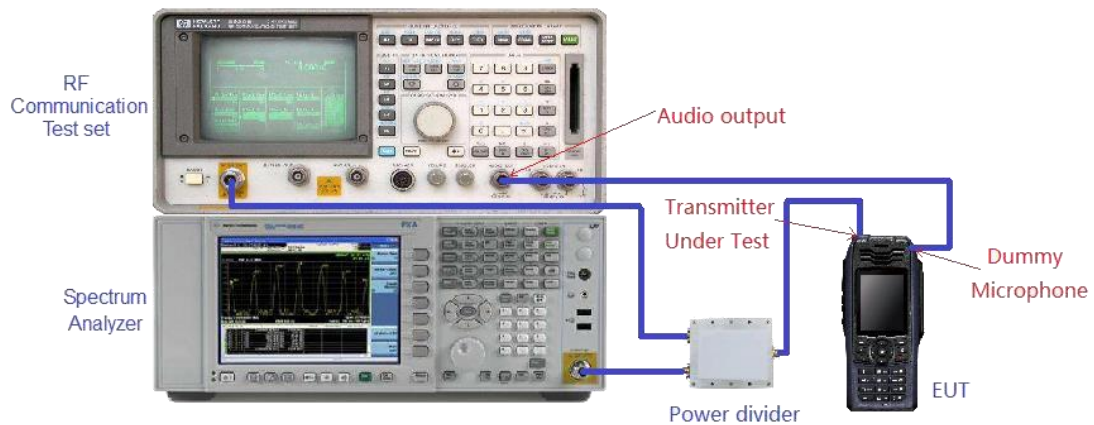
FCC Part 90.209 & FCC Part 2.1049:

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.
2. Rated system deviation is 2.5 kHz for 12.5kHz channel spacing.
3. Spectrum set as follow:
4. Centre frequency = fundamental frequency.
5. Span=50kHz for 12.5kHz channel spacing.
6. RBW=100Hz, VBW=300Hz, Sweep = auto.
7. Detector function = peak, Trace = max hold.
8. Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.
9. Measure and record the results in the test report.

7.3 Measurement Setup



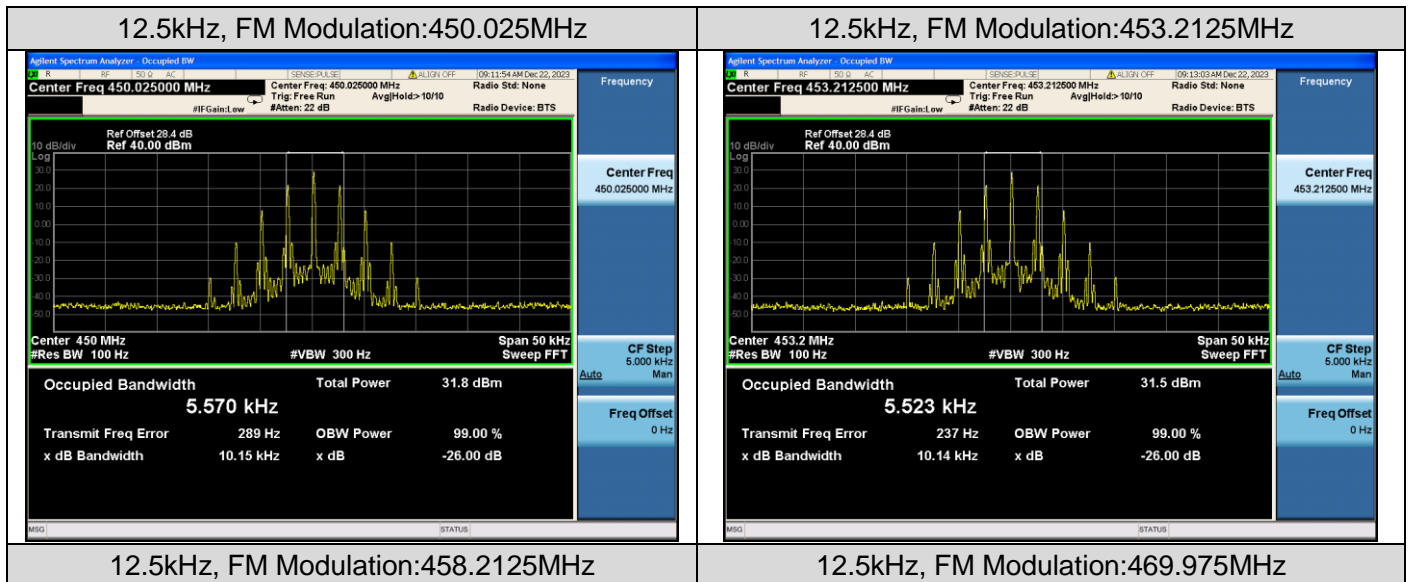
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7.4 Measurement Result

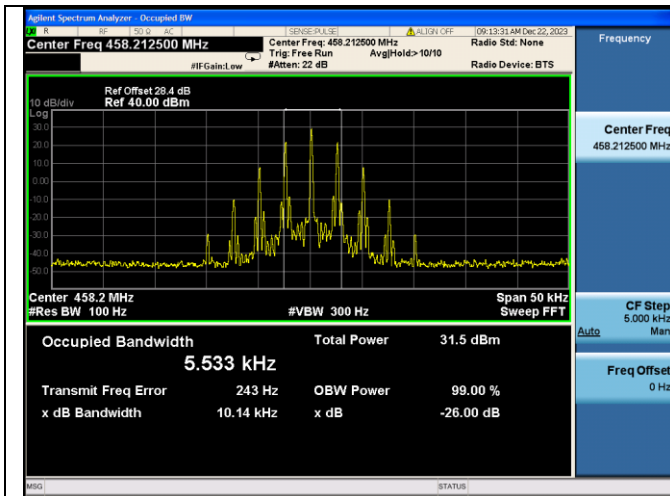
Measurement Result of UHF-Analog Modulation				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
450.025MHz	5.570 kHz	10.15 kHz	11.25 kHz	Pass
453.2125MHz	5.523 kHz	10.14 kHz	11.25 kHz	Pass
458.2125MHz	5.533 kHz	10.14 kHz	11.25 kHz	Pass
469.975MHz	5.536 kHz	10.14 kHz	11.25 kHz	Pass

Measurement Result of UHF-Digital Modulation				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
450.025MHz	7.338 kHz	9.575 kHz	11.25 kHz	Pass
453.2125MHz	7.363 kHz	9.626 kHz	11.25 kHz	Pass
458.2125MHz	7.293 kHz	9.647 kHz	11.25 kHz	Pass
469.975MHz	7.352 kHz	9.436 kHz	11.25 kHz	Pass

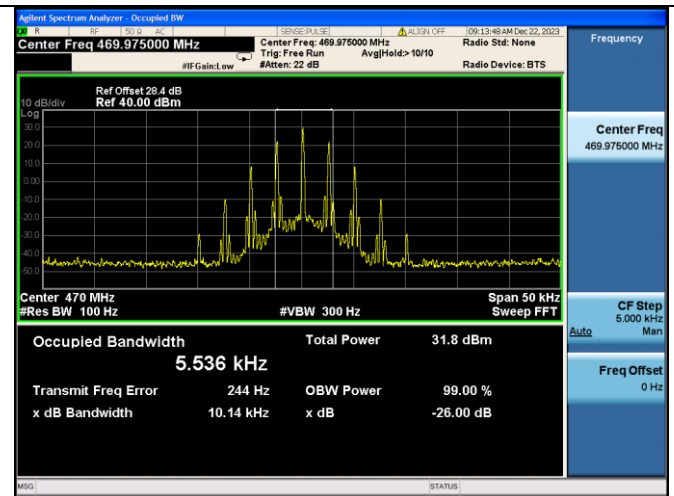
Test plot as follows:



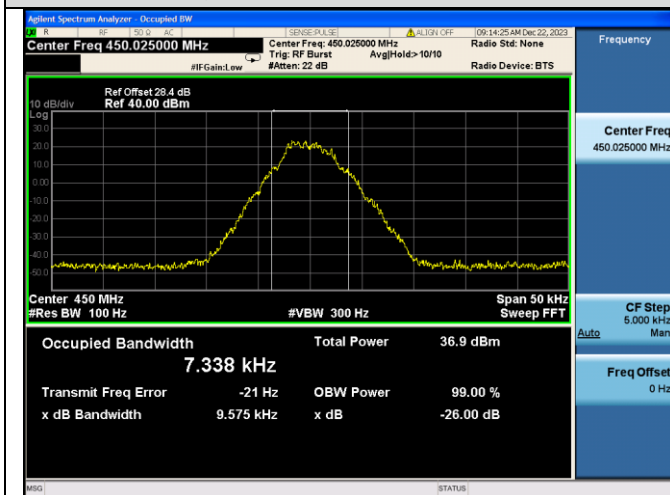
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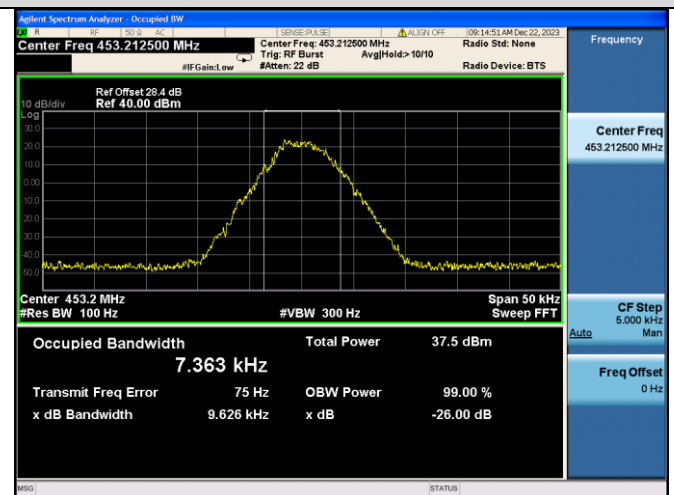
12.5kHz, 4FSK Modulation:450.025MHz



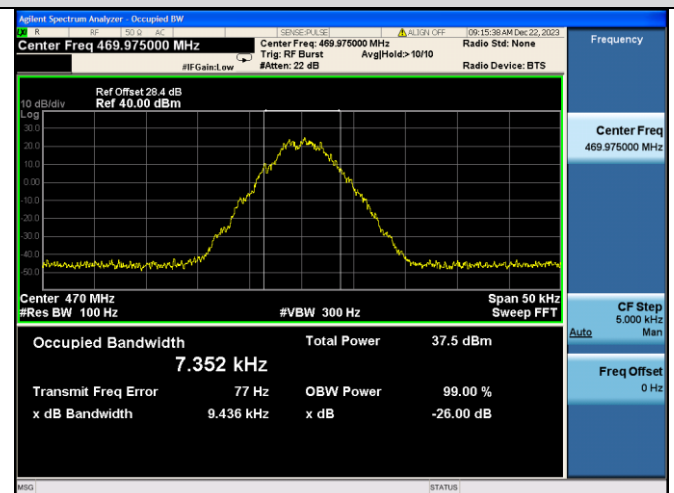
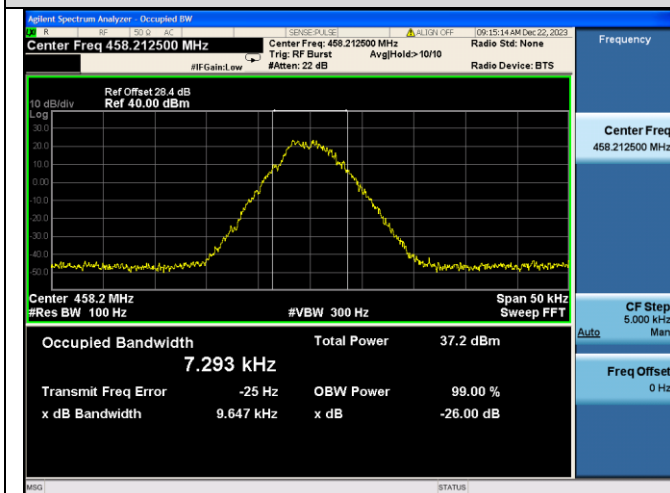
12.5kHz, 4FSK Modulation:453.2125MHz



12.5kHz, 4FSK Modulation:458.2125MHz



12.5kHz, 4FSK Modulation:469.975MHz



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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 $7.27(f_d - 2.88 \text{ kHz})$ 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 $50 + 10 \log(P)$ dB or 70 dB, whichever is lesser attenuation.

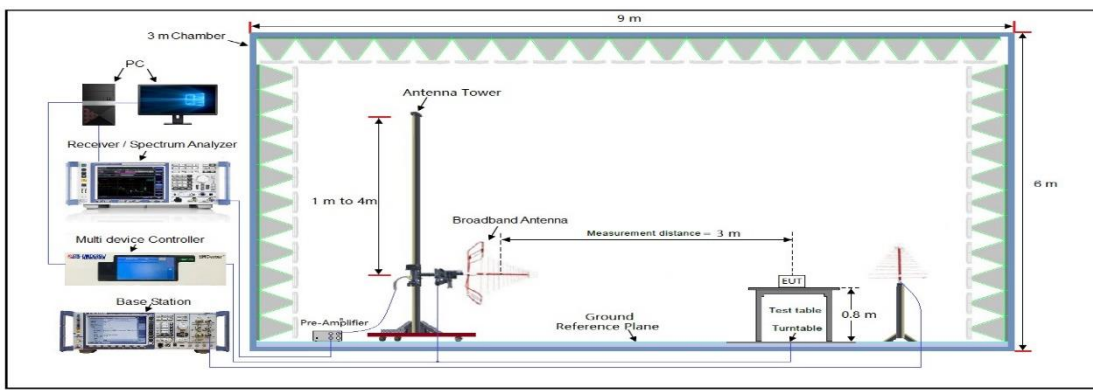
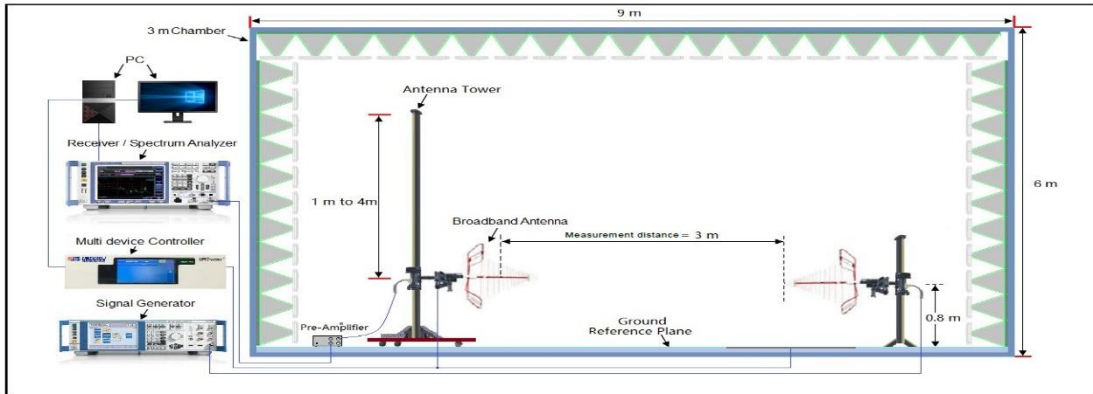
8.2 Measurement Procedure

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 then 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.

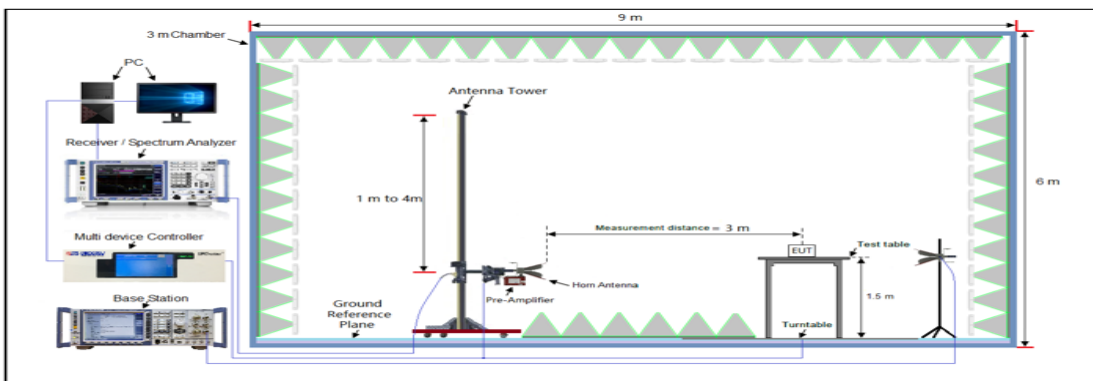
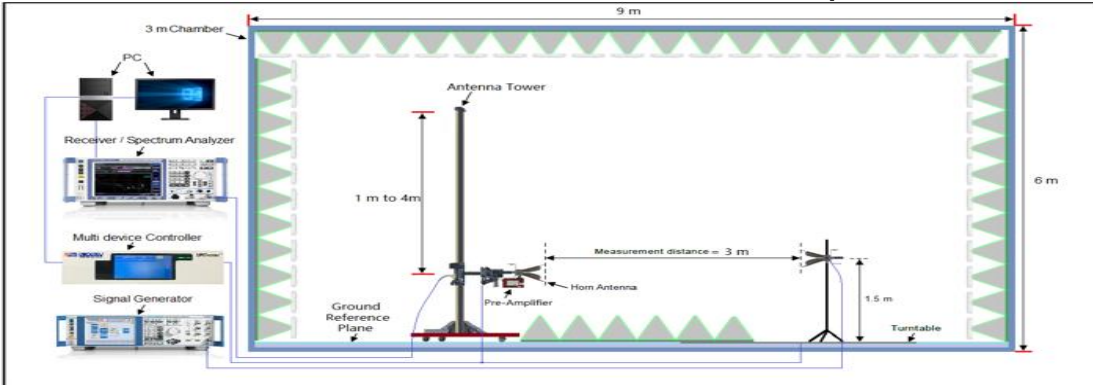
8.3 MEASUREMENT SETUP

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Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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8.4 Measurement Result

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.

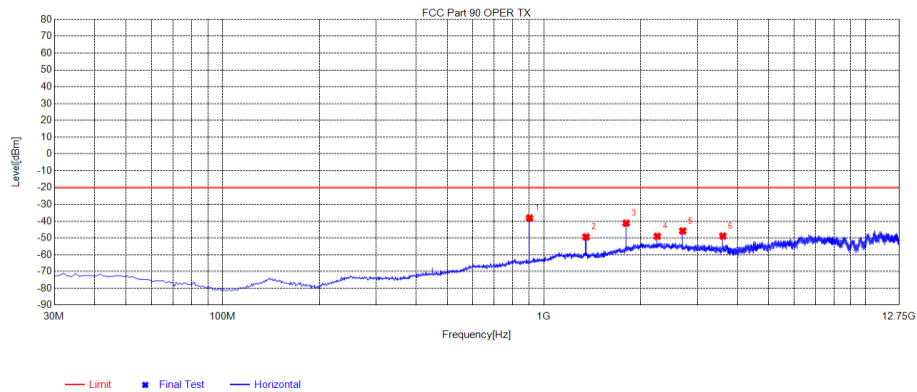
EIRP = “Read Value” + Measured substitution value + 2.15.

Test limit calculation:

Preliminary calculation	Final Result
At least $50 + 10 \log (P) = 50 + 10 \log (2) = 53.01 \text{ (dB)}$	Limit=P- Preliminary calculation= $33.01 - 53.01 = -20 \text{ dBm}$

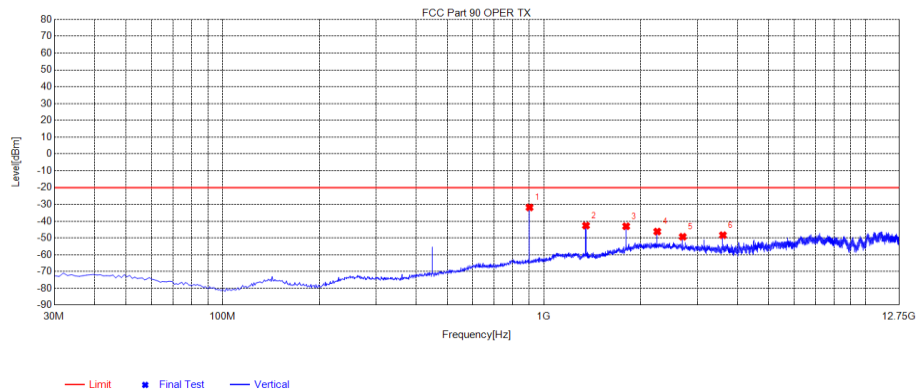
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Test Mode: TX:450.025MHz-FM Polarity: Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	901.06	-75.70	-38.15	-20.00	18.15	37.55	124	Horizontal
2	1350.185	-45.27	-49.38	-20.00	29.38	-4.11	281	Horizontal
3	1800.255	-40.73	-41.17	-20.00	21.17	-0.44	298	Horizontal
4	2250.325	-51.28	-49.00	-20.00	29.00	2.28	358	Horizontal
5	2700.395	-47.97	-45.84	-20.00	25.84	2.13	159	Horizontal
6	3600.5351	-51.18	-48.85	-20.00	28.85	2.33	72	Horizontal

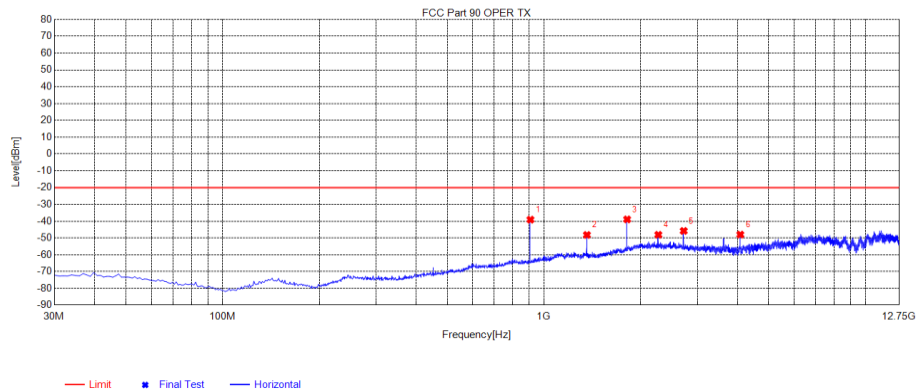
Test Mode: TX:450.025MHz-FM Polarity: Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	901.06	-69.36	-31.81	-20.00	11.81	37.55	226	Vertical
2	1350.185	-38.52	-42.63	-20.00	22.63	-4.11	61	Vertical
3	1800.255	-42.59	-43.03	-20.00	23.03	-0.44	252	Vertical
4	2250.325	-48.45	-46.17	-20.00	26.17	2.28	183	Vertical
5	2700.395	-51.40	-49.27	-20.00	29.27	2.13	113	Vertical
6	3600.5351	-50.65	-48.32	-20.00	28.32	2.33	244	Vertical

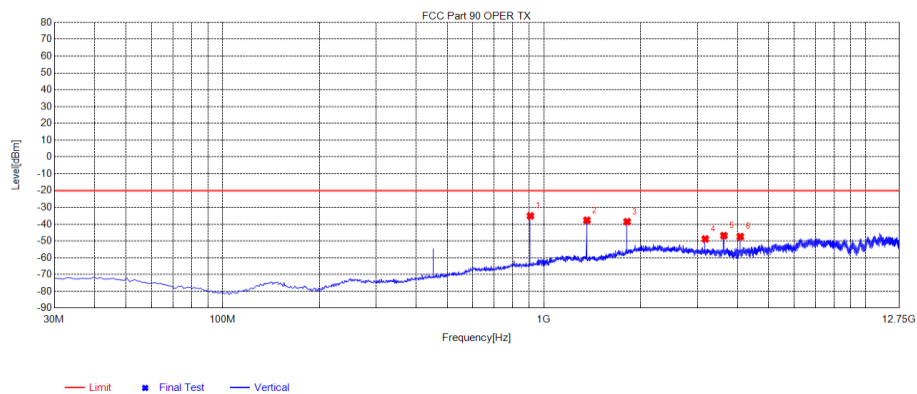
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Test Mode:	TX:453.2125MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.88	-76.77	-39.10	-20.00	19.10	37.67	123	Horizontal
2	1359.586	-44.06	-48.17	-20.00	28.17	-4.11	323	Horizontal
3	1813.1813	-38.66	-38.94	-20.00	18.94	-0.28	305	Horizontal
4	2266.7767	-50.36	-48.07	-20.00	28.07	2.29	356	Horizontal
5	2719.1969	-47.87	-45.78	-20.00	25.78	2.09	166	Horizontal
6	4078.8079	-50.77	-47.97	-20.00	27.97	2.80	97	Horizontal

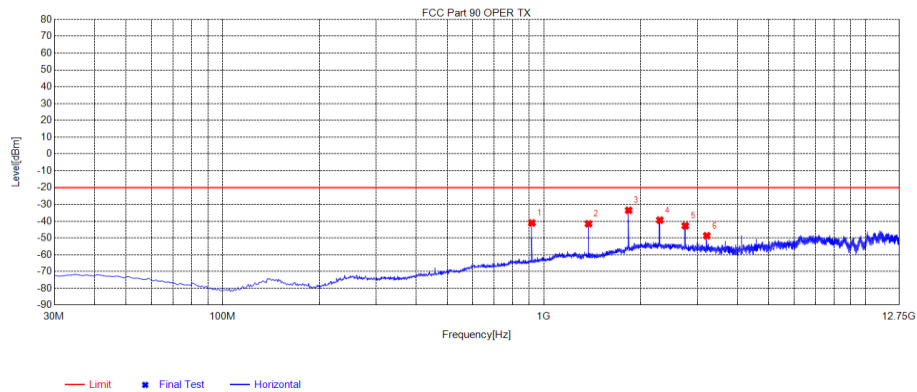
Test Mode:	TX:453.2125MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.88	-72.77	-35.10	-20.00	15.10	37.67	227	Vertical
2	1359.586	-33.56	-37.67	-20.00	17.67	-4.11	140	Vertical
3	1813.1813	-38.23	-38.51	-20.00	18.51	-0.28	184	Vertical
4	3172.7923	-50.58	-48.79	-20.00	28.79	1.79	227	Vertical
5	3626.3876	-49.12	-46.78	-20.00	26.78	2.34	227	Vertical
6	4078.8079	-50.19	-47.39	-20.00	27.39	2.80	219	Vertical

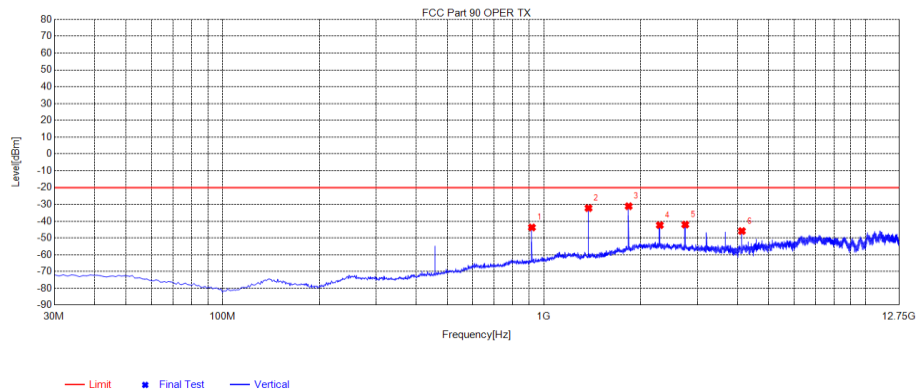
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Test Mode:	TX:458.2125MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	916.58	-78.90	-41.04	-20.00	21.04	37.86	104	Horizontal
2	1374.8625	-37.41	-41.52	-20.00	21.52	-4.11	252	Horizontal
3	1833.1583	-33.49	-33.52	-20.00	13.52	-0.03	87	Horizontal
4	2291.4541	-41.67	-39.35	-20.00	19.35	2.32	147	Horizontal
5	2749.75	-44.76	-42.73	-20.00	22.73	2.03	173	Horizontal
6	3208.0458	-50.50	-48.66	-20.00	28.66	1.84	330	Horizontal

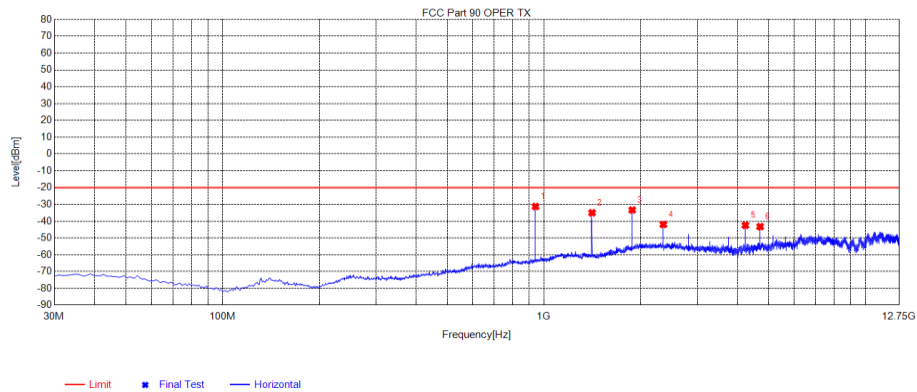
Test Mode:	TX:458.2125MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	916.58	-81.58	-43.72	-20.00	23.72	37.86	18	Vertical
2	1374.8625	-28.09	-32.20	-20.00	12.20	-4.11	175	Vertical
3	1833.1583	-31.06	-31.09	-20.00	11.09	-0.03	228	Vertical
4	2291.4541	-44.69	-42.37	-20.00	22.37	2.32	114	Vertical
5	2749.75	-44.08	-42.05	-20.00	22.05	2.03	70	Vertical
6	4124.6375	-48.83	-45.85	-20.00	25.85	2.98	210	Vertical

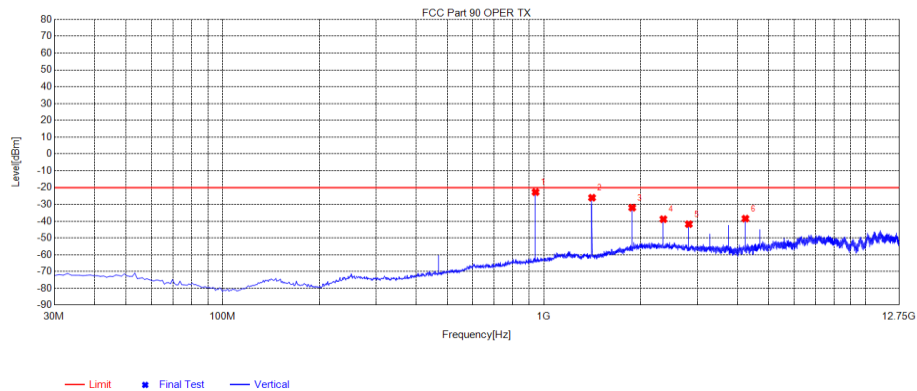
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Test Mode:	TX:469.975MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	940.83	-69.60	-31.26	-20.00	11.26	38.34	174	Horizontal
2	1410.116	-30.88	-35.00	-20.00	15.00	-4.12	104	Horizontal
3	1880.163	-33.89	-33.34	-20.00	13.34	0.55	244	Horizontal
4	2350.21	-44.34	-41.96	-20.00	21.96	2.38	166	Horizontal
5	4230.398	-45.85	-42.46	-20.00	22.46	3.39	95	Horizontal
6	4700.445	-47.90	-43.25	-20.00	23.25	4.65	87	Horizontal

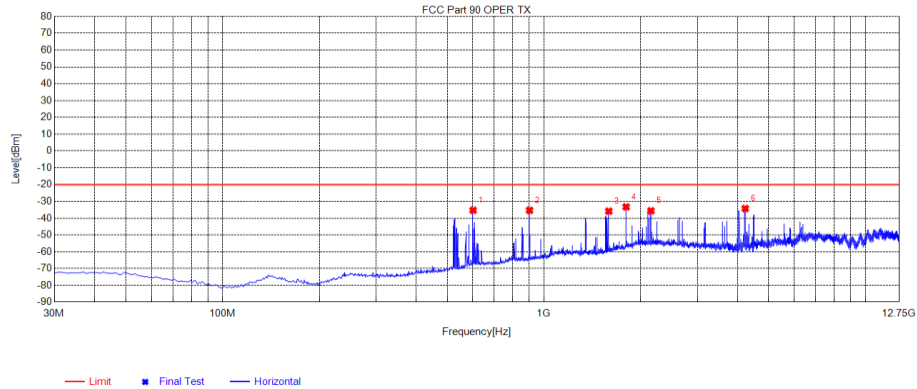
Test Mode:	TX:469.975MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	940.83	-61.07	-22.73	-20.00	2.73	38.34	193	Vertical
2	1410.116	-21.92	-26.04	-20.00	6.04	-4.12	141	Vertical
3	1880.163	-32.50	-31.95	-20.00	11.95	0.55	228	Vertical
4	2350.21	-41.21	-38.83	-20.00	18.83	2.38	184	Vertical
5	2820.257	-43.66	-41.78	-20.00	21.78	1.88	202	Vertical
6	4230.398	-41.87	-38.48	-20.00	18.48	3.39	210	Vertical

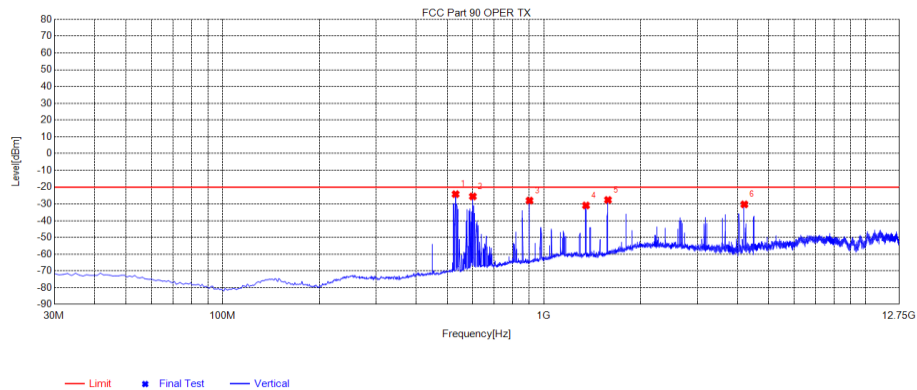
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Test Mode:	TX:450.025MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	601.33	-70.15	-35.30	-20.00	15.30	34.85	217	Horizontal
2	901.06	-72.86	-35.31	-20.00	15.31	37.55	130	Horizontal
3	1589.909	-32.81	-35.83	-20.00	15.83	-3.02	156	Horizontal
4	1800.255	-32.82	-33.26	-20.00	13.26	-0.44	278	Horizontal
5	2150.44	-37.74	-35.57	-20.00	15.57	2.17	304	Horizontal
6	4225.6976	-37.61	-34.24	-20.00	14.24	3.37	121	Horizontal

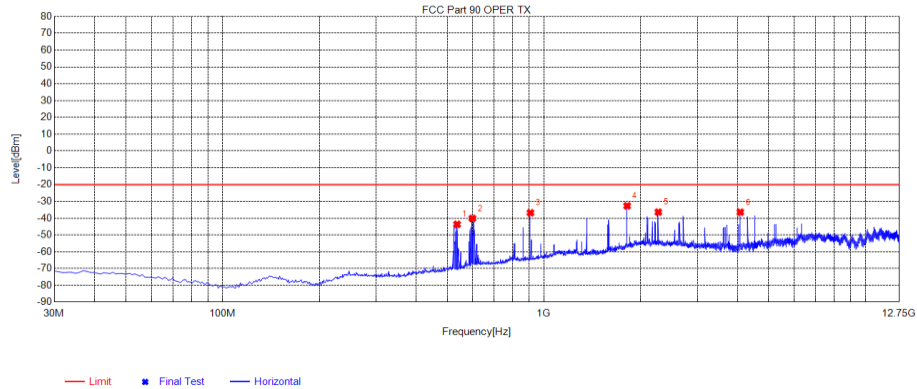
Test Mode:	TX:450.025MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	530.52	-56.62	-24.18	-20.00	4.18	32.44	228	Vertical
2	600.36	-60.39	-25.54	-20.00	5.54	34.85	350	Vertical
3	901.06	-65.56	-28.01	-20.00	8.01	37.55	236	Vertical
4	1350.185	-26.84	-30.95	-20.00	10.95	-4.11	166	Vertical
5	1580.5081	-24.49	-27.63	-20.00	7.63	-3.14	166	Vertical
6	4198.6699	-33.56	-30.29	-20.00	10.29	3.27	289	Vertical

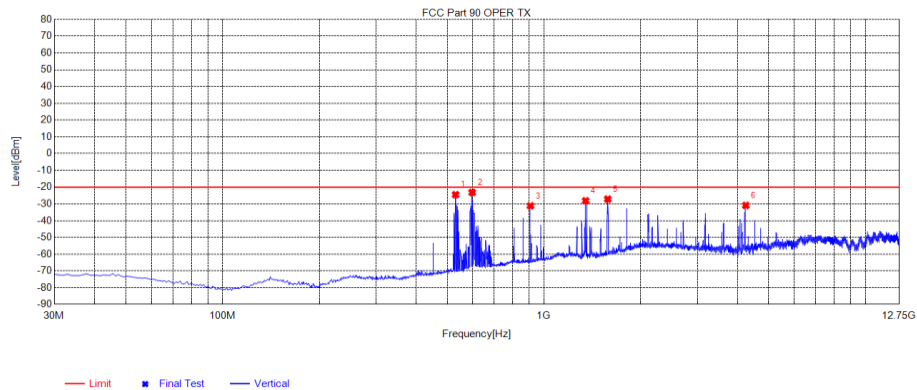
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Test Mode:	TX:453.2125MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	536.34	-76.20	-43.65	-20.00	23.65	32.55	9	Horizontal
2	598.42	-74.92	-40.13	-20.00	20.13	34.79	342	Horizontal
3	906.88	-74.46	-36.79	-20.00	16.79	37.67	114	Horizontal
4	1813.1813	-32.37	-32.65	-20.00	12.65	-0.28	290	Horizontal
5	2266.7767	-38.67	-36.38	-20.00	16.38	2.29	263	Horizontal
6	4078.8079	-39.22	-36.42	-20.00	16.42	2.80	80	Horizontal

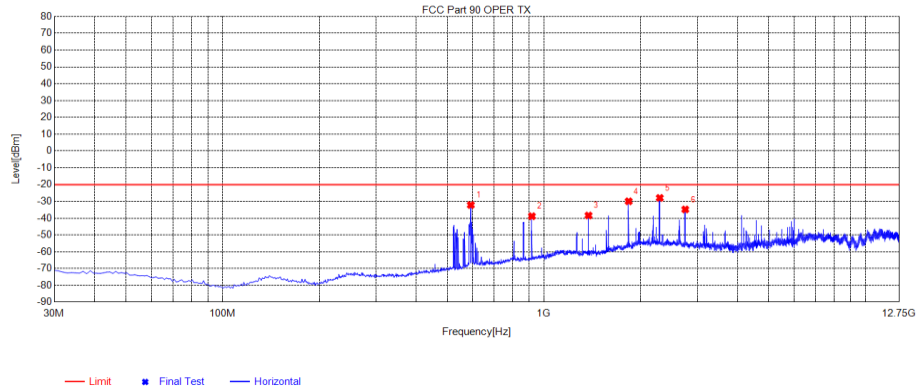
Test Mode:	TX:453.2125MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	530.52	-56.93	-24.49	-20.00	4.49	32.44	192	Vertical
2	597.45	-57.92	-23.17	-20.00	3.17	34.75	359	Vertical
3	906.88	-68.83	-31.16	-20.00	11.16	37.67	219	Vertical
4	1346.6597	-24.03	-28.14	-20.00	8.14	-4.11	288	Vertical
5	1578.1578	-23.99	-27.16	-20.00	7.16	-3.17	140	Vertical
6	4242.1492	-34.33	-30.90	-20.00	10.90	3.43	219	Vertical

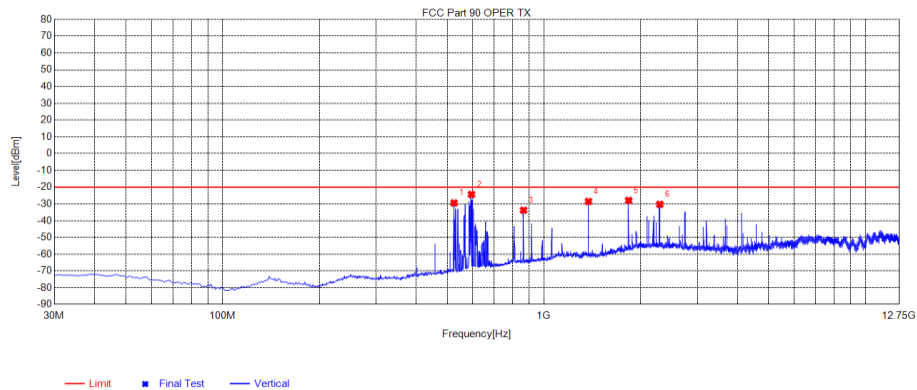
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Test Mode:	TX:458.2125MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	591.63	-66.66	-32.15	-20.00	12.15	34.51	281	Horizontal
2	916.58	-76.70	-38.84	-20.00	18.84	37.86	107	Horizontal
3	1374.8625	-34.29	-38.40	-20.00	18.40	-4.11	160	Horizontal
4	1833.1583	-29.90	-29.93	-20.00	9.93	-0.03	90	Horizontal
5	2291.4541	-30.26	-27.94	-20.00	7.94	2.32	142	Horizontal
6	2749.75	-36.82	-34.79	-20.00	14.79	2.03	1	Horizontal

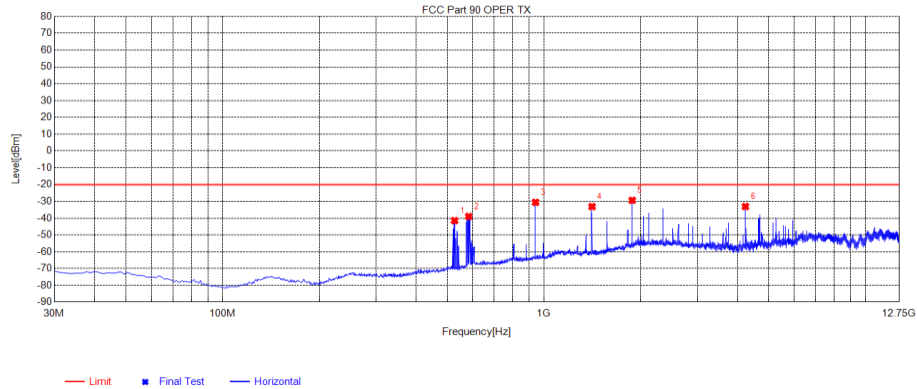
Test Mode:	TX:458.2125MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	524.7	-61.77	-29.45	-20.00	9.45	32.32	27	Vertical
2	594.54	-58.96	-24.33	-20.00	4.33	34.63	18	Vertical
3	863.23	-71.02	-33.80	-20.00	13.80	37.22	359	Vertical
4	1374.8625	-24.43	-28.54	-20.00	8.54	-4.11	131	Vertical
5	1833.1583	-27.89	-27.92	-20.00	7.92	-0.03	218	Vertical
6	2291.4541	-32.58	-30.26	-20.00	10.26	2.32	174	Vertical

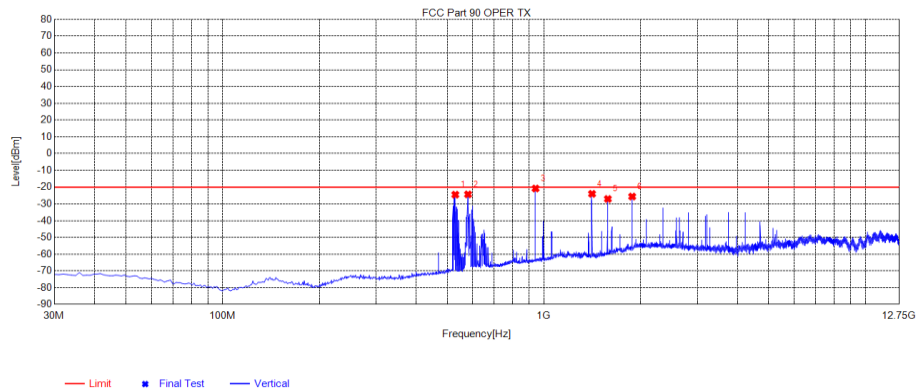
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Test Mode:	TX:469.975MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	526.64	-73.79	-41.43	-20.00	21.43	32.36	18	Horizontal
2	582.9	-73.10	-38.95	-20.00	18.95	34.15	272	Horizontal
3	940.83	-68.91	-30.57	-20.00	10.57	38.34	212	Horizontal
4	1410.116	-28.98	-33.10	-20.00	13.10	-4.12	203	Horizontal
5	1880.163	-29.92	-29.37	-20.00	9.37	0.55	238	Horizontal
6	4230.398	-36.43	-33.04	-20.00	13.04	3.39	125	Horizontal

Test Mode:	TX:469.975MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	529.55	-56.90	-24.48	-20.00	4.48	32.42	232	Vertical
2	579.99	-58.33	-24.30	-20.00	4.30	34.03	214	Vertical
3	940.83	-59.16	-20.82	-20.00	0.82	38.34	205	Vertical
4	1410.116	-19.87	-23.99	-20.00	3.99	-4.12	144	Vertical
5	1579.3329	-23.89	-27.04	-20.00	7.04	-3.15	162	Vertical
6	1880.163	-26.15	-25.60	-20.00	5.60	0.55	214	Vertical

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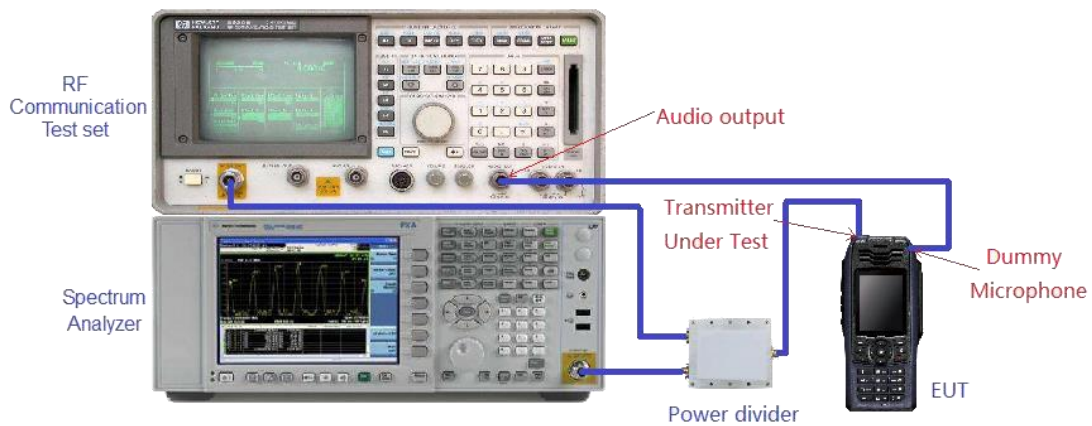
8.5 Emission Mask Measurement Part

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

-Connect the equipment as illustrated.

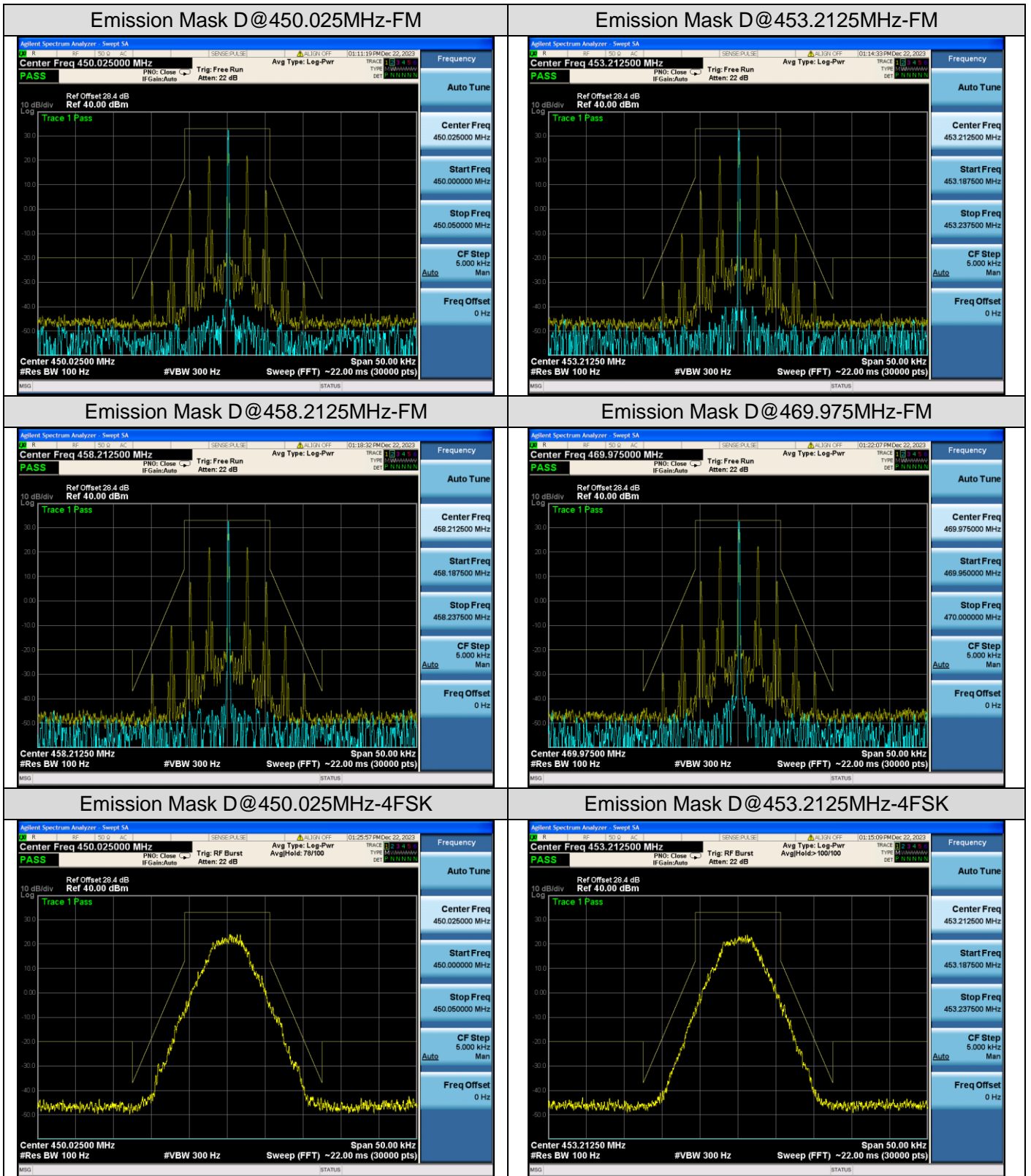
-Spectrum set as follow:

1. Centre frequency = fundamental frequency, Span=50kHz for 12.5kHz channel spacing, RBW=100Hz, VBW=300Hz for 12.5kHz, Sweep = auto, Detector function = peak, Trace = max hold
2. Key the transmitter, and set the level of the unmodulated carrier to a fullscale reference line. This is the 0dB reference for the measurement.
3. 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 (Rated system deviation is 2.5 kHz for 12.5kHz channel spacing). The input level shall be established at the frequency of maximum response of the audio modulating circuit.
4. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
5. Measure and record the results in the test report.

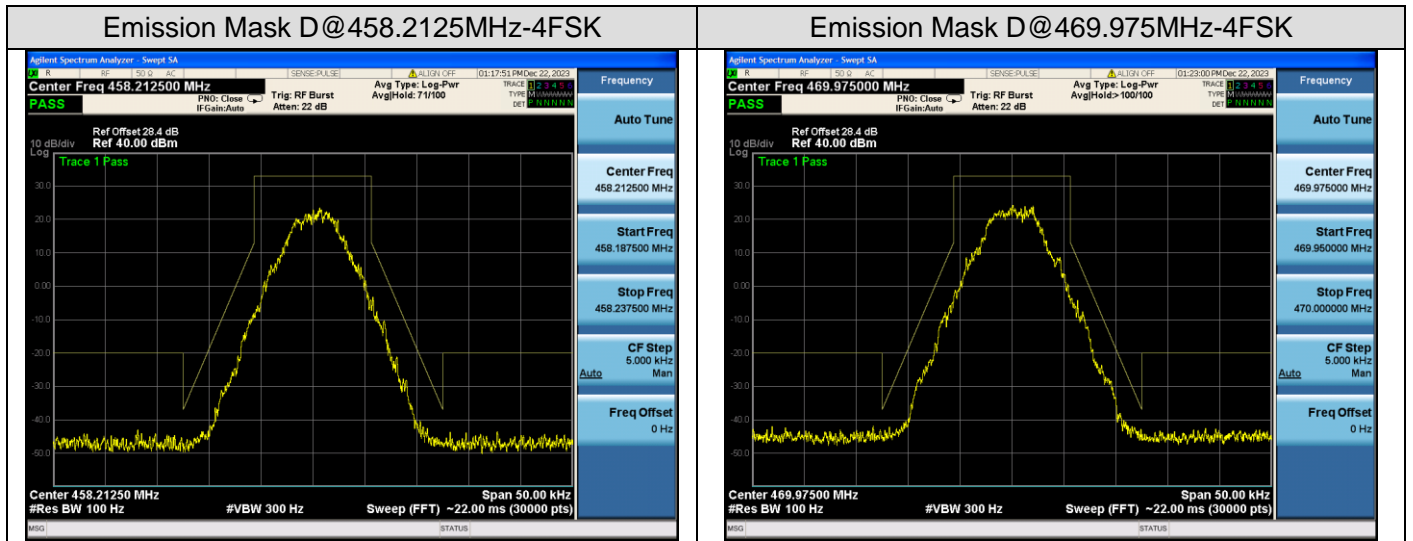


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Test plot as follows:



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9. Modulation Characteristics

9.1 Provisions Applicable

According to FCC§2.1047 and §90.207, for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

9.2 Measurement Procedure

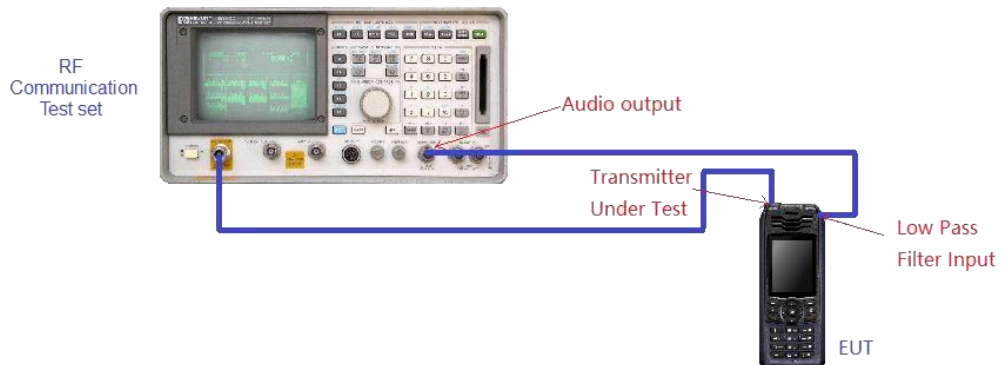
● Modulation Limit

1. Test layout and build equipment as shown below.
2. adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB).
3. Vary the input level from -20 to +20dB.
4. Record the frequency deviation obtained as a function of the input level.
5. Repeat step 2 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

● Audio Frequency Response

1. Test layout and build equipment as shown below.
2. Adjust the audio input for 20% of rated system deviation at 1 kHz using this level as a reference (0 dB).
3. Vary the Audio frequency from 100 Hz to 10 kHz and record the frequency deviation.
4. Audio Frequency Response = $20\log_{10}(\text{Deviation of test frequency}/\text{Deviation of 1 kHz reference})$.

9.3 Measurement Setup

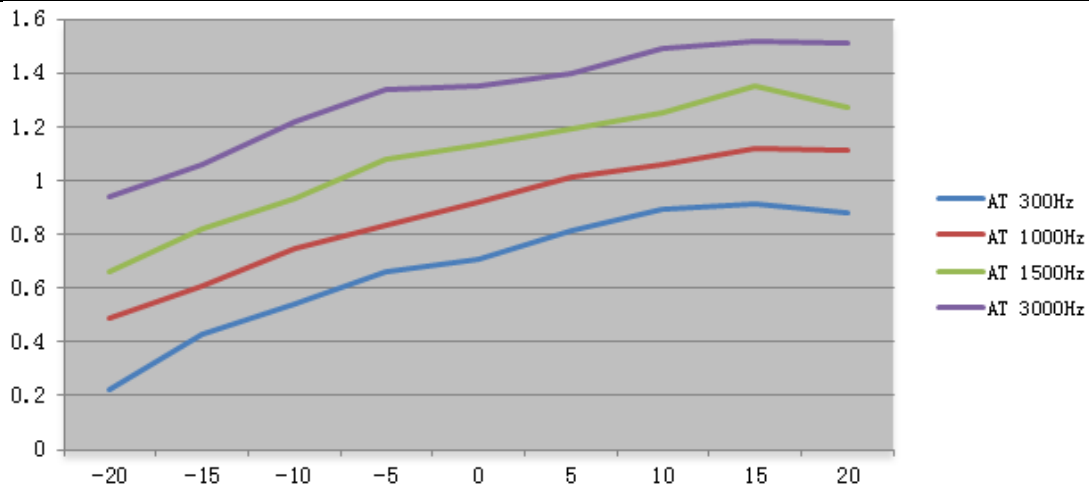


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9.4 Measurement Result

A. Modulation Limit:

12.5kHz, Analog modulation, Assigned Frequency:450.025MHz				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.22	0.49	0.66	0.94
-15	0.43	0.61	0.82	1.06
-10	0.54	0.75	0.93	1.22
-5	0.66	0.83	1.08	1.34
0	0.71	0.92	1.13	1.35
+5	0.81	1.01	1.19	1.4
+10	0.89	1.06	1.25	1.49
+15	0.91	1.12	1.35	1.52
+20	0.88	1.11	1.27	1.51

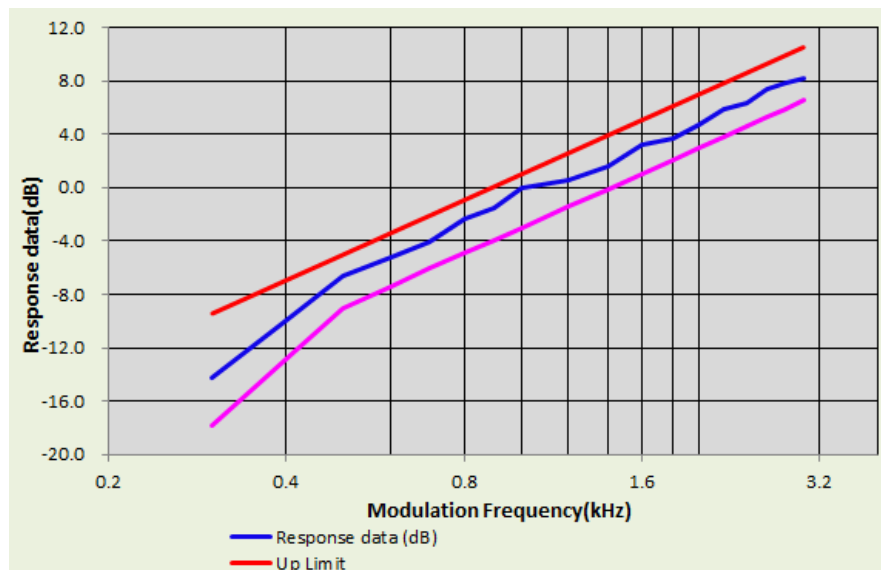


Note: All the modes had been tested, but only the worst data recorded in the report.

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B. Audio Frequency Response:

12.5kHz, Analog modulation, Assigned Frequency:450.025MHz		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.17	-14.28
400	0.28	-9.95
500	0.41	-6.63
600	0.48	-5.26
700	0.55	-4.08
800	0.67	-2.37
900	0.74	-1.51
1000	0.88	0.00
1200	0.94	0.57
1400	1.05	1.53
1600	1.27	3.19
1800	1.35	3.72
2000	1.51	4.69
2400	1.74	5.92
2500	1.82	6.31
2800	2.05	7.35
3000	2.18	7.88



Note: All the modes had been tested, but only the worst data recorded in the report.

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10. Maximum Transmitter Power

10.1 Provisions Applicable

Per FCC §2.1046 and §90.205: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

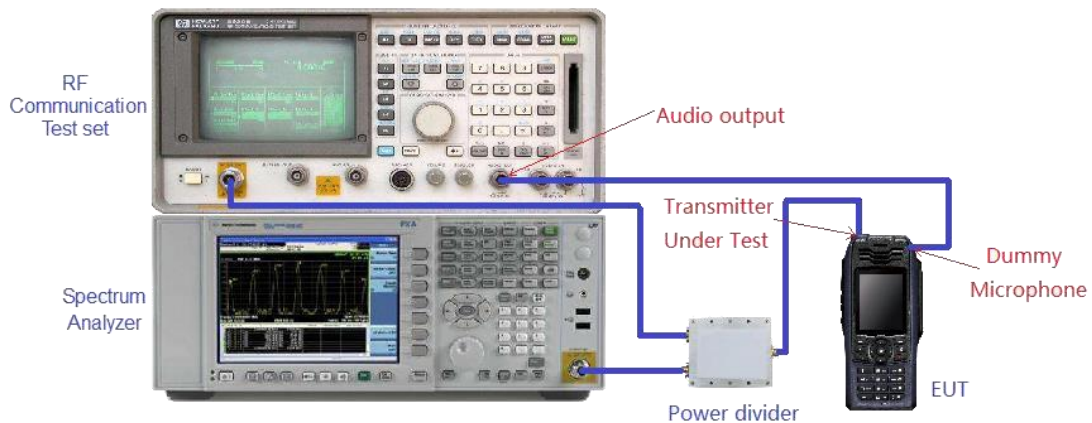
10.2 Measurement Procedure

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator. 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.

10.3 Measurement Setup

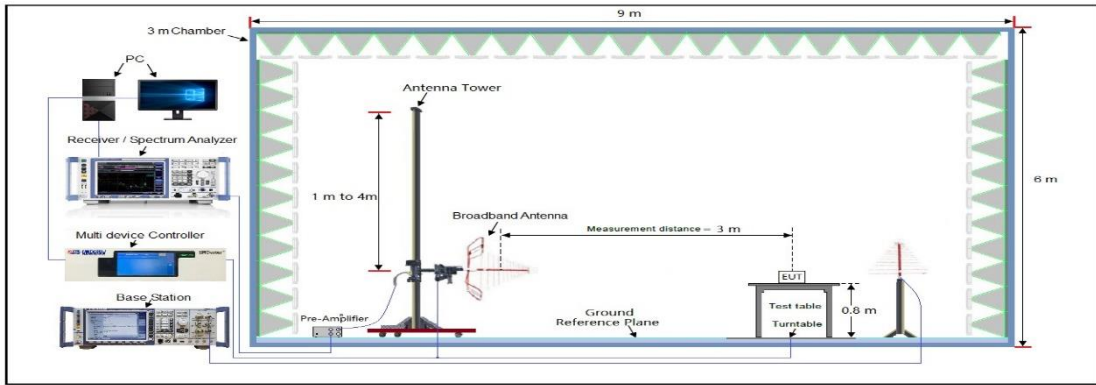
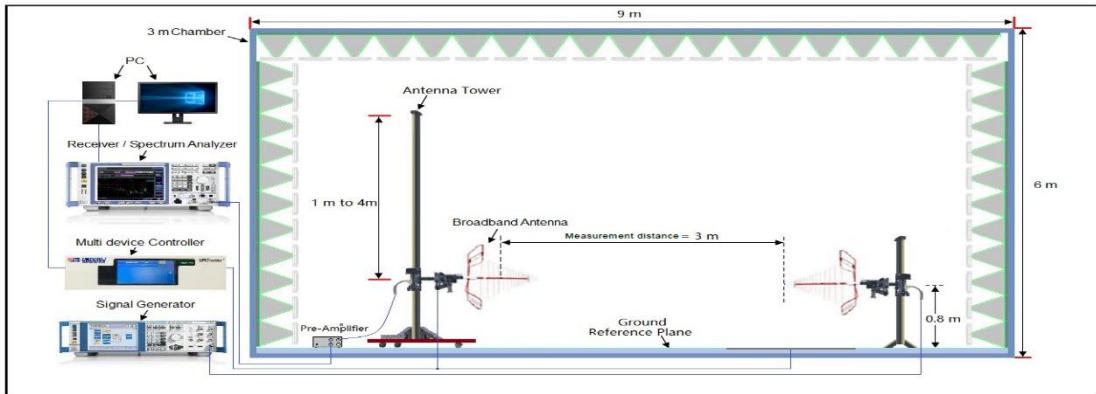
Conducted Output Power:



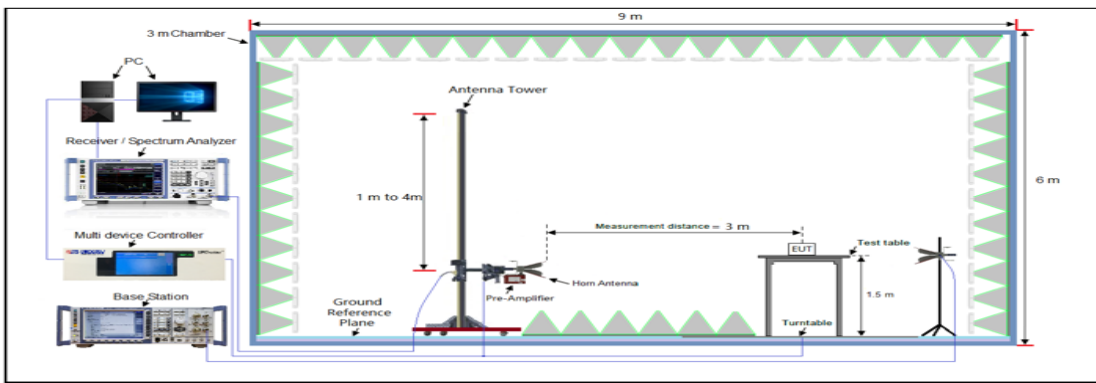
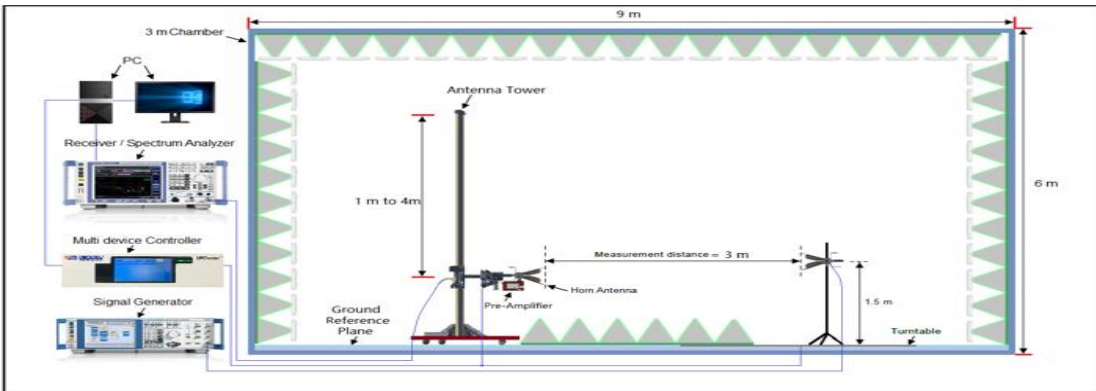
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☒ Effective Radiated Power:

Radiated Below 1GHz



Radiated Above 1 GHz



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10.4 Measurement Result

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 33.01dBm(2W)
Analog	12.5 kHz	Bottom(450.025MHz)	31.27
		Middle(453.2125MHz)	31.49
		Middle(458.2125MHz)	31.50
		Top (469.975MHz)	31.65
Digital	12.5 kHz	Bottom(450.025MHz)	31.50
		Middle(453.2125MHz)	31.61
		Middle(458.2125MHz)	31.73
		Top (469.975MHz)	31.99

Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog +Vioce	450.025	100.14	V	24.91	0.85	6.9	30.96	33.01
	450.025	100.06	H	24.83	0.85	6.9	30.88	33.01
	453.2125	100.32	V	25.09	0.85	6.9	31.14	33.01
	453.2125	100.24	H	25.01	0.85	6.9	31.06	33.01
	458.2125	100.38	V	25.15	0.85	6.9	31.20	33.01
	458.2125	100.32	H	25.09	0.85	6.9	31.14	33.01
	469.9750	100.50	V	25.27	0.85	6.9	31.32	33.01
	469.9750	100.44	H	25.21	0.85	6.9	31.26	33.01
Digital (Voice+Data)	450.025	100.38	V	25.15	0.85	6.9	31.20	33.01
	450.025	100.32	H	25.09	0.85	6.9	31.14	33.01
	453.2125	100.49	V	25.26	0.85	6.9	31.31	33.01
	453.2125	100.43	H	25.20	0.85	6.9	31.25	33.01
	458.2125	100.61	V	25.38	0.85	6.9	31.43	33.01
	458.2125	100.47	H	25.24	0.85	6.9	31.29	33.01
	469.9750	100.77	V	25.54	0.85	6.9	31.59	33.01
	469.9750	100.65	H	25.42	0.85	6.9	31.47	33.01

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Note:

Calculation Formula: $CP = R + A + L$

- CP: The final Conducted Power
- R: The reading value from spectrum analyzer
- A: The attenuation value of the used attenuator
- L: The loss of all connection cables
- Measurement Result=Peak Power (Max)

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11. Spurious Emission on Antenna Port

11.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057 & 90.210 for specification details.

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

FCC Rules	Attenuation Limit (dBc)
§ 90.210	At least $50 + 10 \log (P)$ dB

$50 + 10 \log (P_{\text{watts}})$

Note: In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) = EL - 50 - 10 log₁₀ (TP)

EL is the emission level of the Output Power expressed in dBm,

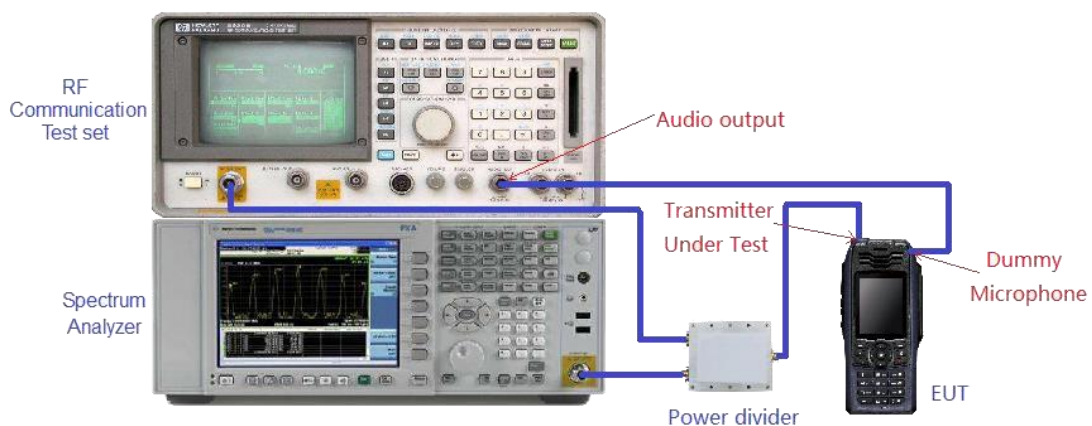
In this application, the EL is P (dBm)

Limit (dBm) = P (dBm) - 50 - 10 log (Pwatts) = -20dBm

11.2 Measurement Procedure

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 100 kHz, VBW 300 kHz in the frequency band 30MHz 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.

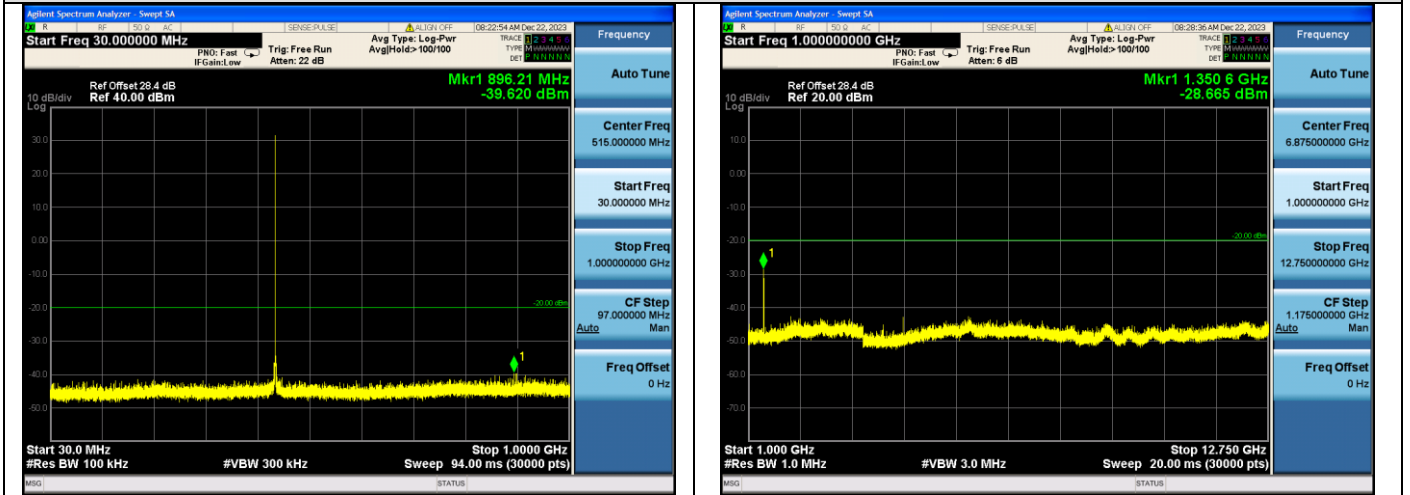
11.3 Measurement Setup



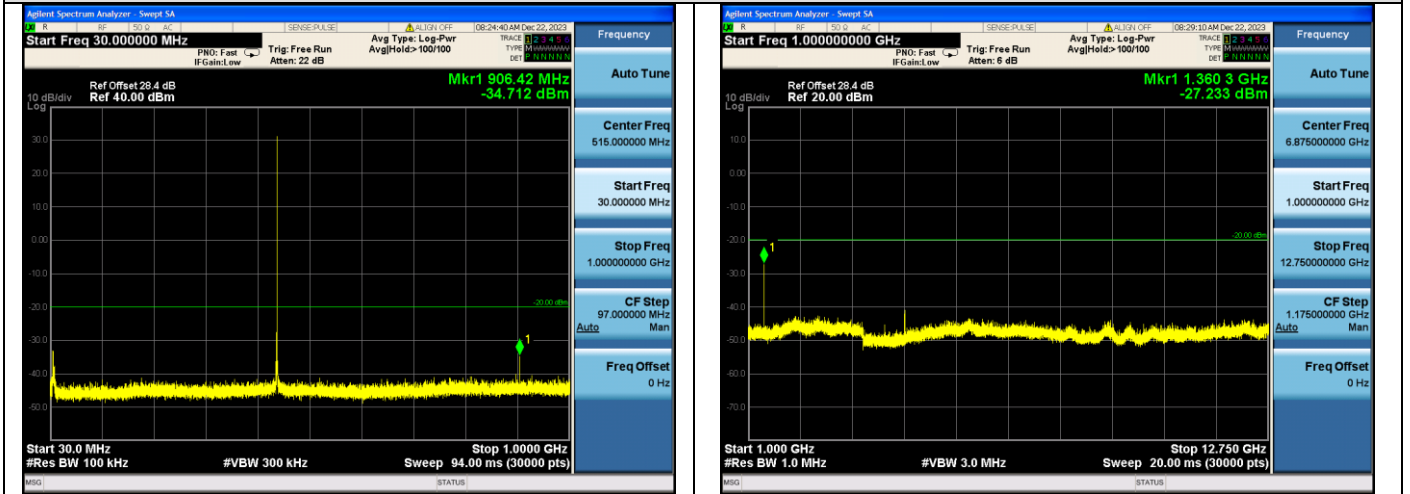
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11.4 Measurement Result

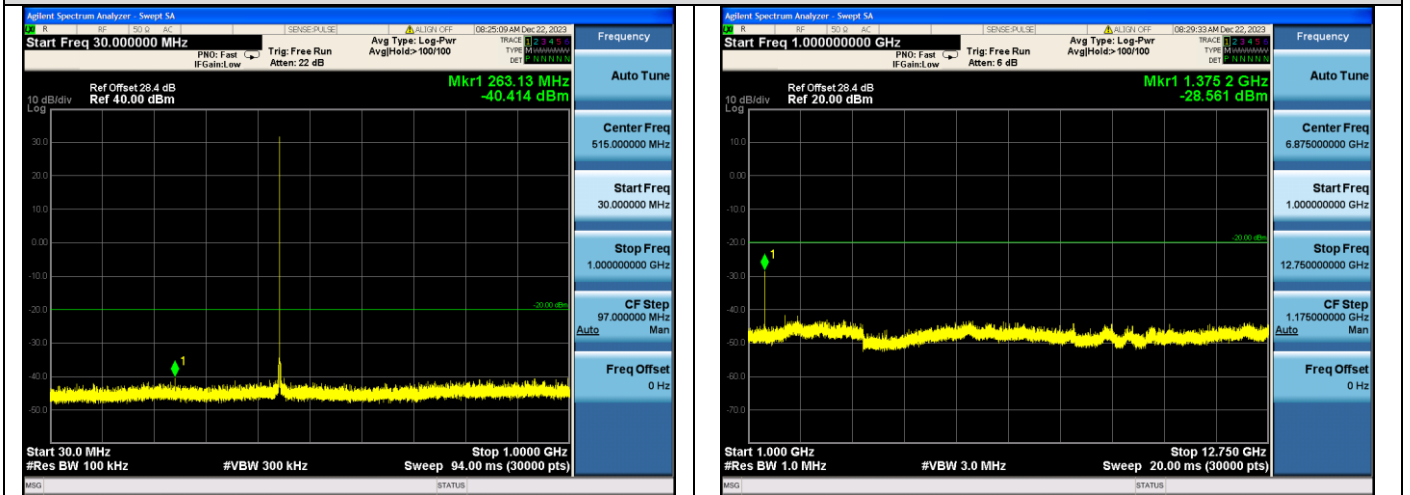
12.5kHz, Analog modulation, Assigned Frequency:450.025MHz



12.5kHz, Analog modulation, Assigned Frequency:453.2125MHz

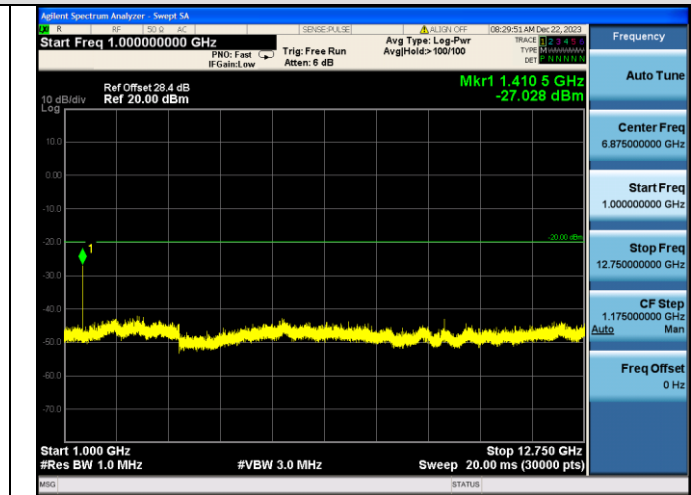
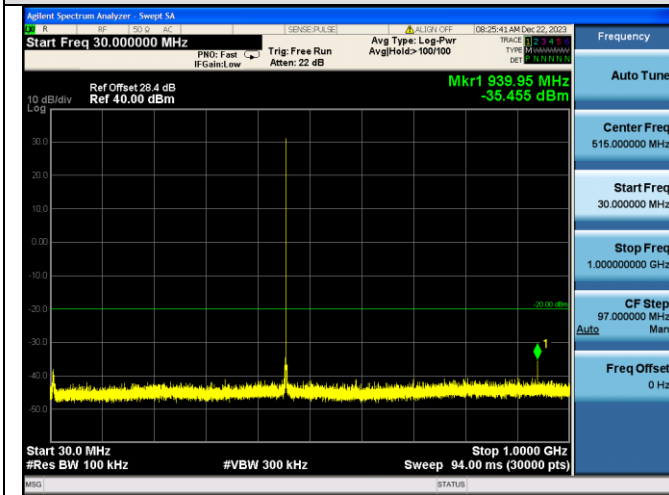


12.5kHz, Analog modulation, Assigned Frequency:458.2125 MHz

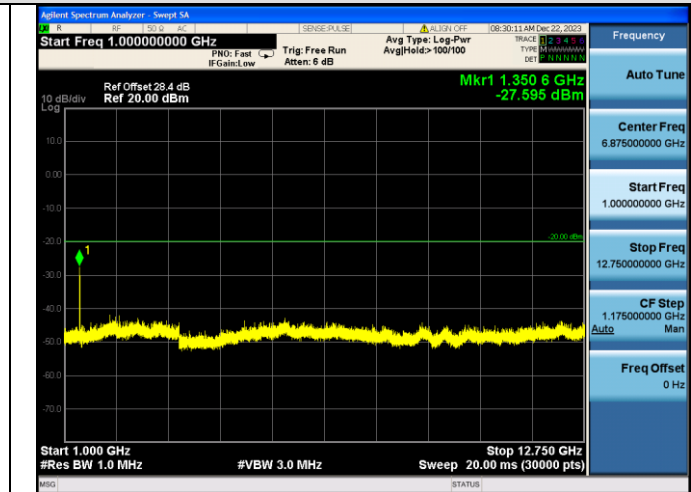
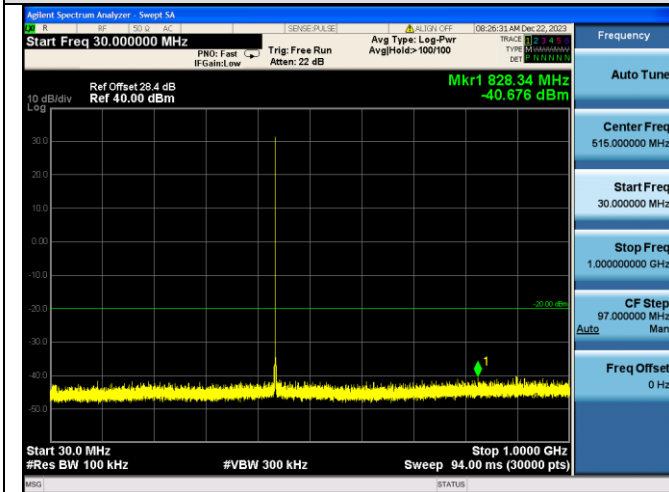


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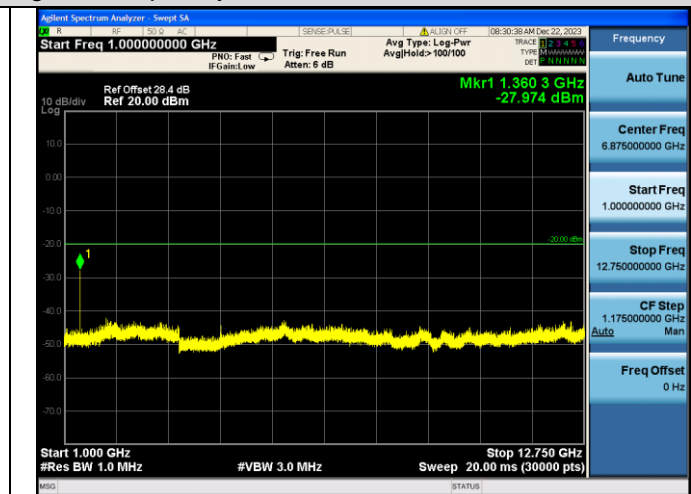
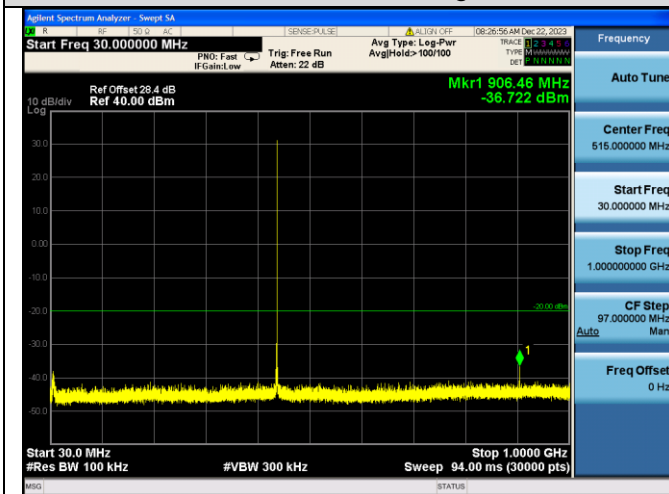
12.5kHz, Analog modulation, Assigned Frequency:469.975MHz



12.5kHz, Digital modulation, Assigned Frequency:450.025MHz

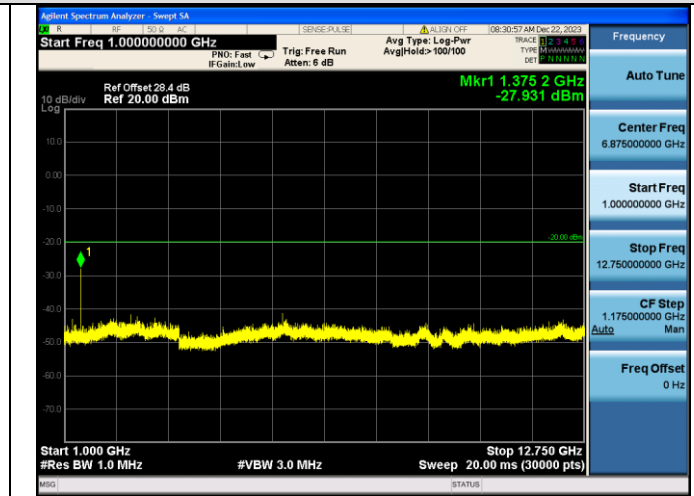
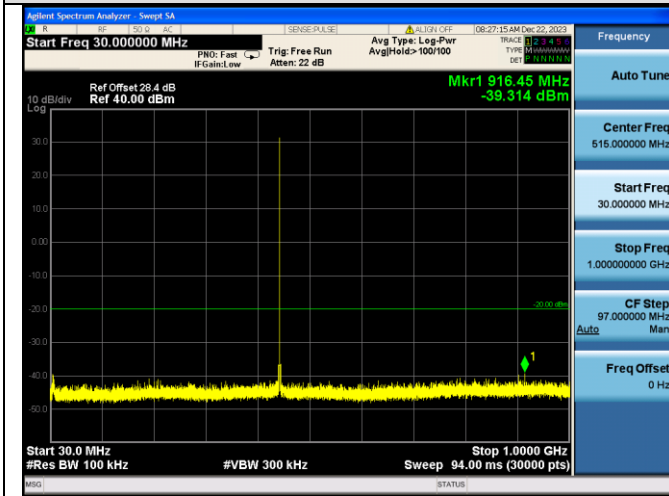


12.5kHz, Digital modulation, Assigned Frequency:453.2125MHz

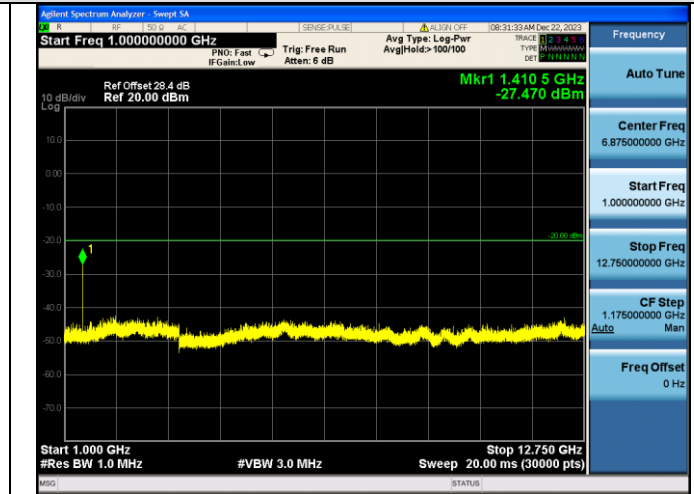
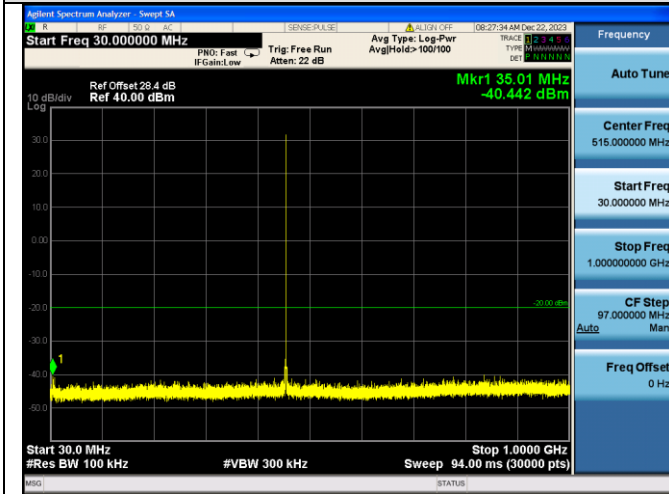


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12.5kHz, Digital modulation, Assigned Frequency:458.2125 MHz



12.5kHz, Digital modulation, Assigned Frequency:469.975MHz



Note: All the test frequencies was tested, but only the worst data be recorded in this part.

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