

FCC Test Report

Report No.: AGC02931251206FR05

FCC ID : 2BLTR-RPT2V

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : DMR Repeater

BRAND NAME : TYTECH, ABLEBOW

MODEL NAME : MD-7500, AB-ZD7500

APPLICANT : Quanzhou RadioBoss Technology Co., Ltd

DATE OF ISSUE : May 14, 2026

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	/	May 14, 2026	Valid	Initial Release

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Table of Contents

1. General Information	5
2. Product Information	6
2.1 Product Technical Description	6
2.2 Test Frequency List	7
2.3 Related Submittal(S) / Grant (S)	8
2.4 Test Methodology	8
2.5 Calculation of Emission Indicators	8
2.6 Special Accessories	8
2.7 Equipment Modifications	8
3. Test Environment	9
3.1 Address of The Test Laboratory	9
3.2 Test Facility	9
3.3 Environmental Conditions	10
3.4 Measurement Uncertainty	10
3.5 List of Equipment Used	11
4. System Test Configuration	12
4.1 EUT Configuration	12
4.2 EUT Exercise	12
4.3 Configuration of Tested System	12
4.4 Equipment Used in Tested System	12
4.5 Summary of Test Results	13
5. Description of Test Modes	14
6. Frequency Stability	15
6.1 Provisions Applicable	15
6.2 Measurement Procedure	15
6.3 Measurement Setup	15
6.4 Measurement Result	16
7. 26dB Emission Bandwidth and 99% Occupied Bandwidth	17
7.1 Provisions Applicable	17
7.2 Measurement Procedure	17
7.3 Measurement Setup	17
7.4 Measurement Result	18
8. Spurious Radiated Emission	20
8.1 Provisions Applicable	20
8.2 Measurement Procedure	20
8.3 Measurement Setup	21
8.4 Measurement Result	22
8.5 Emission Mask Measurement Part	35
9. Modulation Characteristics	37
9.1 Provisions Applicable	37

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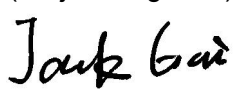
9.2 Measurement Procedure	37
9.3 Measurement Setup	37
9.4 Measurement Result	38
10. Maximum Transmitter Power	40
10.1 Provisions Applicable	40
10.2 Measurement Procedure	40
10.3 Measurement Setup	40
10.4 Measurement Result	42
11. Spurious Emission on Antenna Port	43
11.1 Provisions Applicable	43
11.2 Measurement Procedure	43
11.3 Measurement Setup	43
11.4 Measurement Result	44
12. Transmitter Frequency Behavior	46
12.1 Provisions Applicable	46
12.2 Measurement Setup	46
12.3 Measurement Procedure	47
12.4 Measurement Result	49
13. Audio Low Pass Filter Response	50
13.1 Provisions Applicable	50
13.2 Measurement Procedure	51
13.3 Measurement Setup	51
13.4 Measurement Result	52
Appendix I: Photographs of Test Setup	53
Appendix II: Photographs of Test EUT	53

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1. General Information

Applicant	Quanzhou RadioBoss Technology Co., Ltd
Address	No.8, Chuangzao Road, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian,China
Manufacturer	Quanzhou RadioBoss Technology Co., Ltd
Address	No.8, Chuangzao Road, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian,China
Factory	Quanzhou RadioBoss Technology Co., Ltd
Address	No.8, Chuangzao Road, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian,China
Product Designation	DMR Repeater
Brand Name	TYTECH, ABLEBOW
Test Model	MD-7500
Series Model(s)	AB-ZD7500
Difference Description	The only difference is the model name
Date of receipt of test item	Dec. 11, 2025
Date of Test	Dec. 11, 2025~Apr. 24, 2026
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)	May 14, 2026
Reviewed By		
	Jack Gui (Reviewer)	May 14, 2026
Approved By		
	Angela Li (Authorized Officer)	May 14, 2026

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2. Product Information

2.1 Product Technical Description

Communication Type	Voice / Data	
Operation Frequency Range	From 136MHz to 174MHz--VHF	
Hardware Version	V2.0	
Software Version	V1.0.0.56	
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:	9K97F3E
	Digital (Voice+Data):	7K76F1D/7K76F1W
Rated Output Power	50W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	46.32dBm(Analog); 46.32dBm(Digital)	
Antenna Designation	Detachable Antenna	
Antenna Gain	3.0dBi	
Frequency Tolerance	1.038ppm	
Power Supply	AC 120V, 60Hz from AC Main& DC 13.6V 22A from DC Power Supply	

Note:

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

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2.2 Test Frequency List

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
Analog/ Digital	12.5 kHz	136-174MHz	Bottom	136.025 MHz
	12.5 kHz	136-174MHz	Middle	155.7525 MHz
	12.5 kHz	136-174MHz	Top	173.975 MHz

Note:

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

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

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BLTR-RPT2V**, 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 (ChannelSpacing: 12.5kHz)

Emission Designator 11K0F3E

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

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

F3E portion of the designator represents an FM voice transmission.

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

For 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: 101 & 201, Building 19(B5), Junfeng Industrial Park, Chongqing Road, P.R.C.

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	0	AC 108V or AC 132V

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)
☒	AGC-ER-E086	Spectrum Analyzer	KEYSIGHT	N9020A	MY53300860	2025-05-08	2026-05-07
☒	AGC-EM-E002	Wireless Connectivity Tester	HP	8920B	US35010161	2025-05-08	2026-05-07
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	AGC-EM-A007	30dB Attenuator	Weinachel	58-30-33	ML030	2025-05-31	2027-05-30
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-A004	Power Splitter	Agilent	11667B	N/A	2025-05-08	2027-05-07

● 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)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2023-01-17	2025-01-16
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2025-01-15	2027-01-14
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-07-24	2026-07-23
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☐	AGC-EM-E021	Pre-amplifier	MITEQ	AM-4A-000115	1465421	2024-05-28	2026-05-27
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2025-05-08	2026-05-07
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-1W	N/A	2025-05-16	2027-05-15
☒	AGC-EM-A088	UHF Filter	Microwave	N25155M2	498705	2025-05-16	2026-05-15

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+ Ver2.1(JS36-RSE)	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
☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Load Antenna	Amphenol	HG-E10	Terminator DC -3G 50W	--
2	Hand microphone	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 (**DMR Repeater**) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

No.	Test Mode Description	Channel Separation
1	TX Bottom channel-VHF	12.5 kHz
2	TX Middle channel-VHF	12.5 kHz
3	TX Top channel-VHF	12.5 kHz

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. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
4. 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

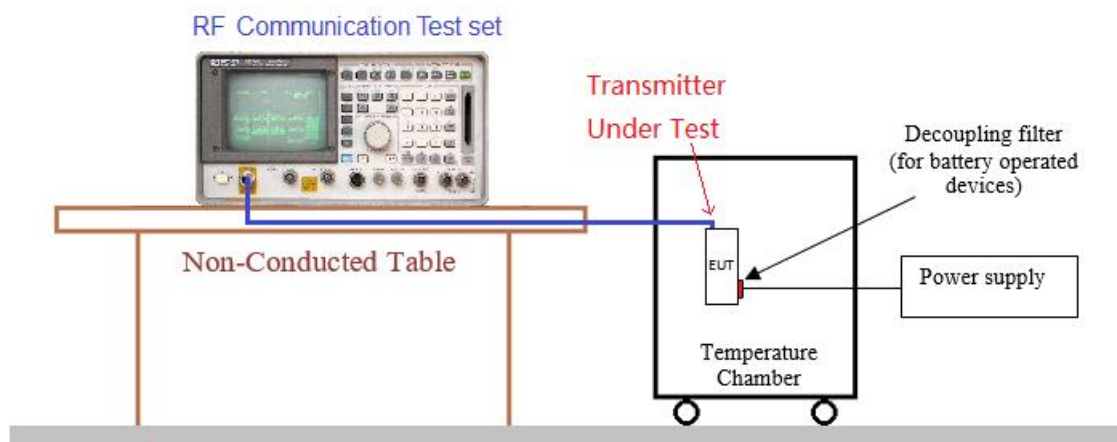
6.2.1 Frequency stability versus environmental temperature

- 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 AC 120V
- 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						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		136.025	155.7525	173.975		
120	-30	0.913	0.653	0.806	2.5	Pass
	-20	0.724	0.769	0.570		
	-10	0.670	0.606	0.924		
	0	1.022	0.772	0.728		
	10	0.941	0.882	0.736		
	20	1.007	0.594	0.822		
	30	0.644	0.583	0.531		
	40	1.038	0.581	0.647		
	50	0.852	0.856	0.678		
108	20	0.764	0.537	0.924		
132	20	0.649	0.637	0.966		

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7. 26dB Emission Bandwidth and 99% Occupied Bandwidth

7.1 Provisions Applicable

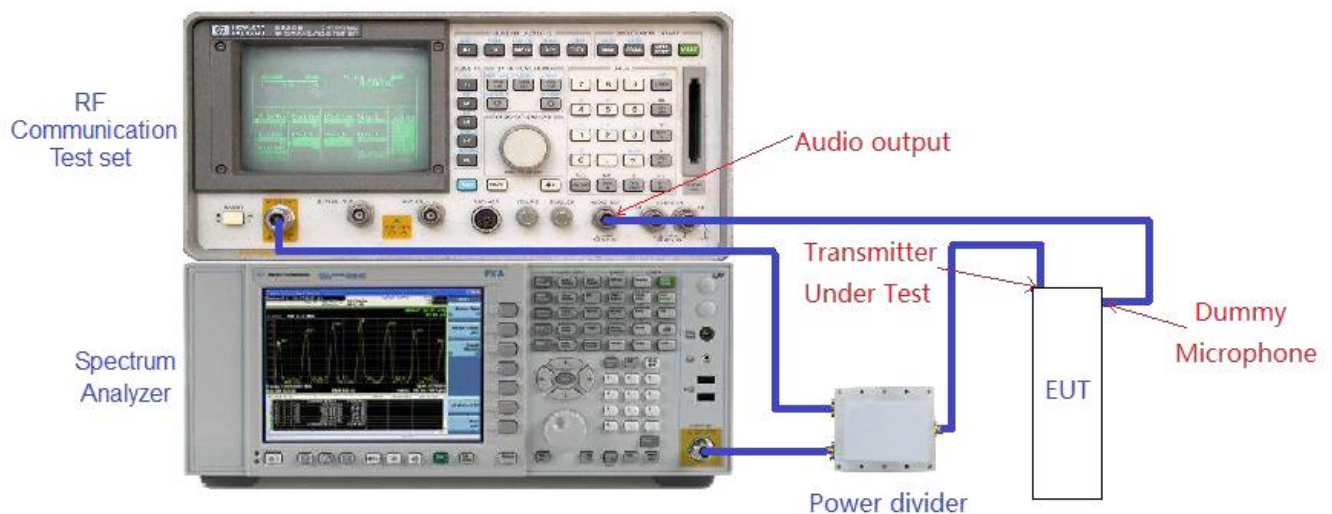
FCC Part 90.209 & FCC Part 2.1049:

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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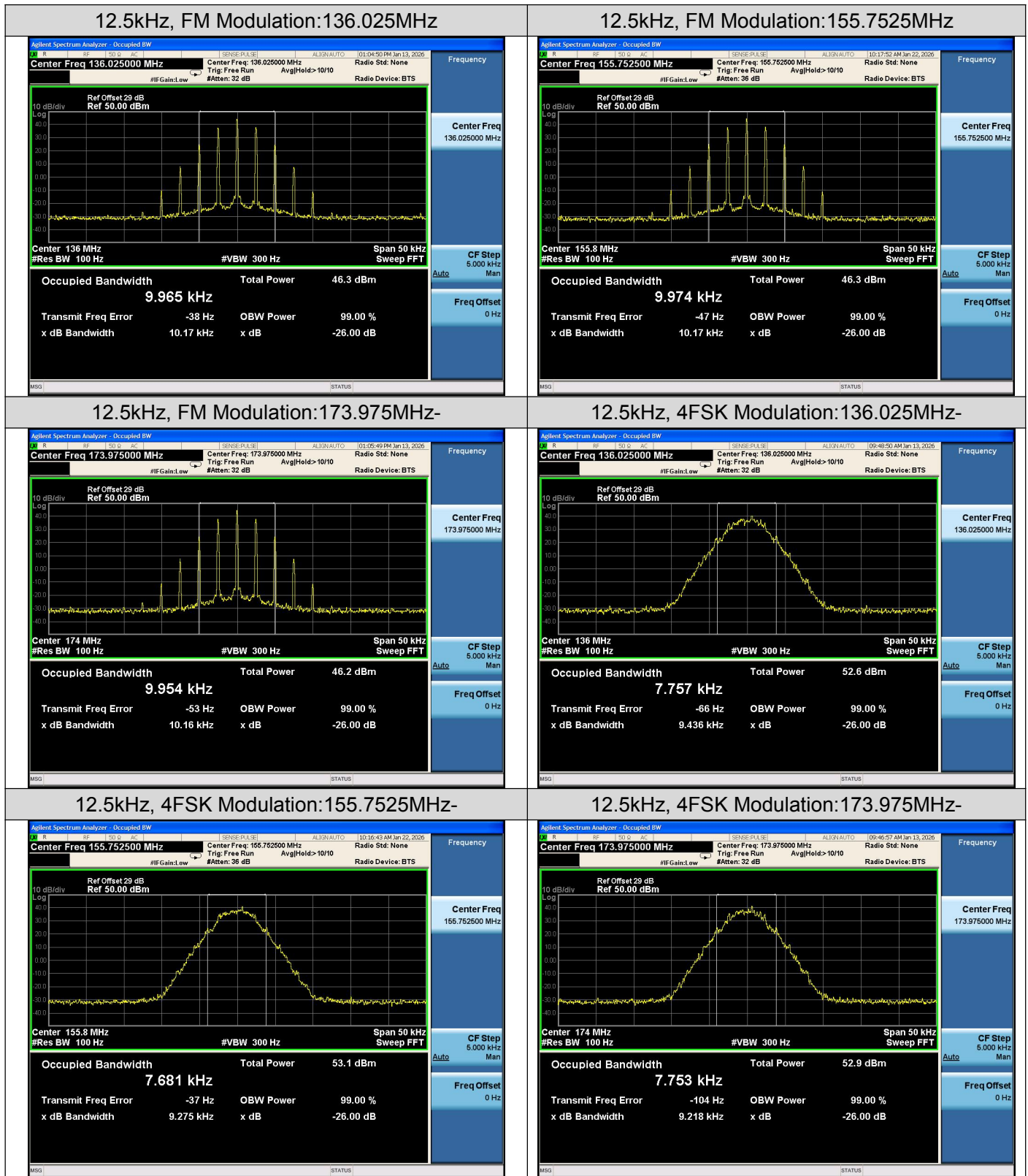
7.4 Measurement Result

Measurement Result of Analog Modulation				
Operating Frequency (MHz)	12.5 kHz Channel Separation			
	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Limits (kHz)	Result
136.025MHz	9.965	10.17	11.25	Pass
155.7525MHz	9.974	10.17	11.25	Pass
173.975MHz	9.954	10.16	11.25	Pass

Measurement Result of Digital Modulation				
Operating Frequency (MHz)	12.5 kHz Channel Separation			
	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Limits (kHz)	Result
136.025MHz	7.757	9.436	11.25	Pass
155.7525MHz	7.681	9.275	11.25	Pass
173.975MHz	7.753	9.218	11.25	Pass

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Test plot as follows:



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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.

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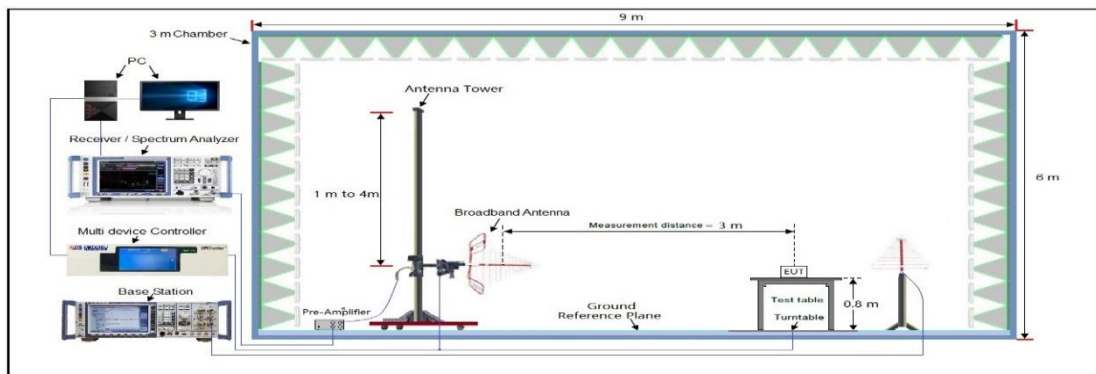
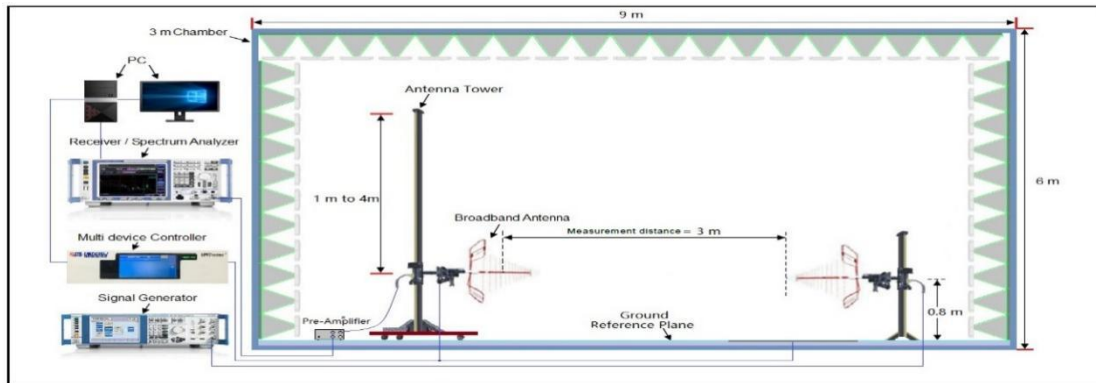
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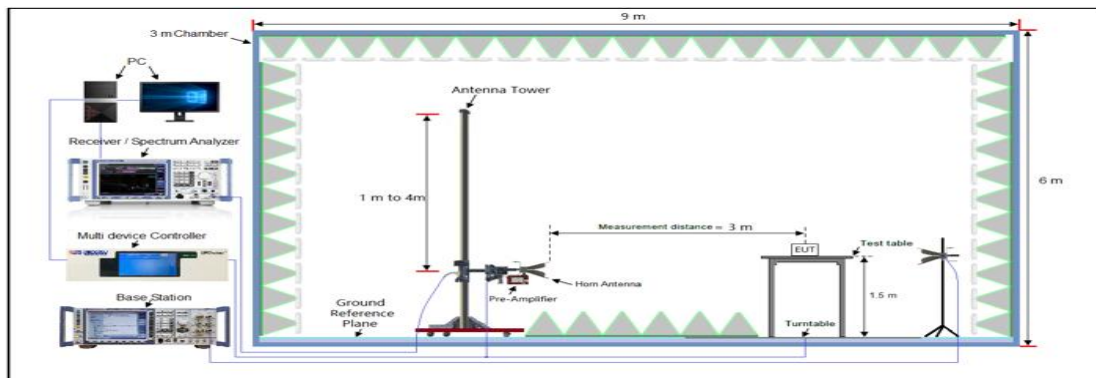
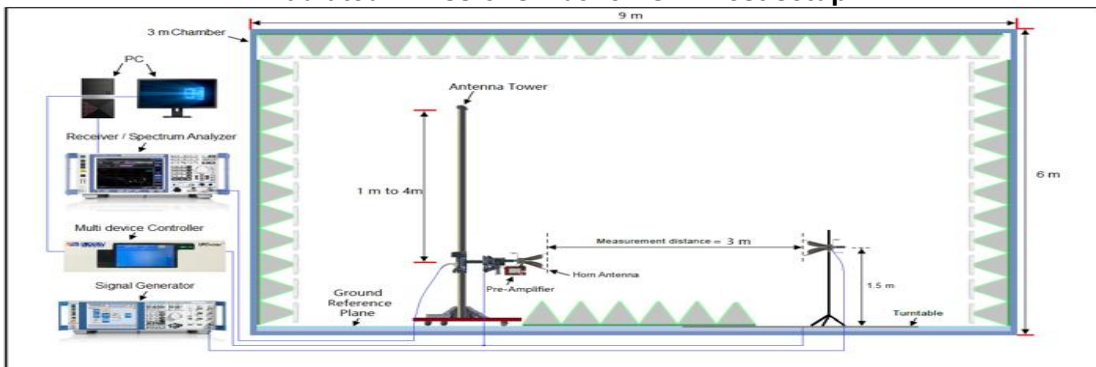
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8.3 Measurement Setup

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:

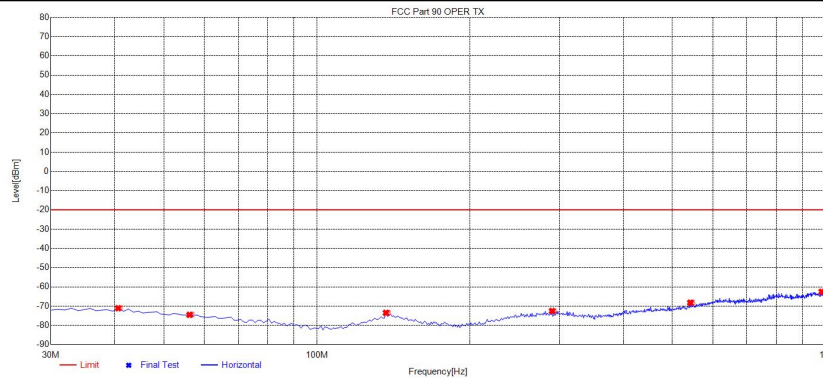
Preliminary calculation	Final Result
At least $50 + 10 \log (P) = 50 + 10 \log (50) = 66.99 \text{ (dB)}$	Limit=P- Preliminary calculation= $46.99 - 66.99 = -20 \text{ dBm}$

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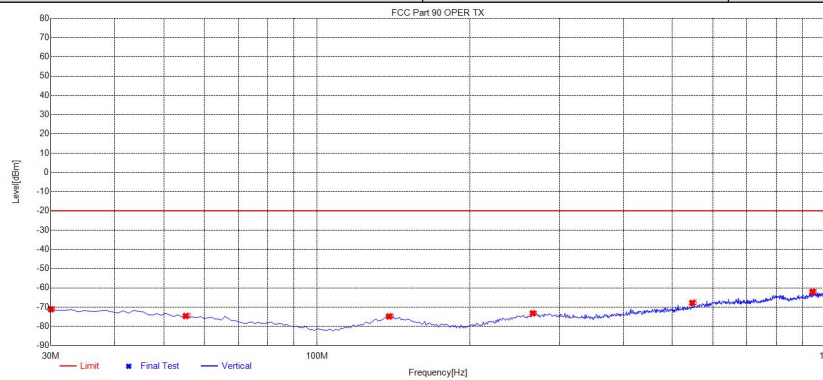
Radiated Emissions 30MHz to 1GHz

Test Mode:	TX:136.025MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	40.67	-100.62	-71.07	-20.00	51.07	29.55	341	Horizontal
2	56.19	-101.21	-74.51	-20.00	54.51	26.70	297	Horizontal
3	136.7	-99.89	-73.50	-20.00	53.50	26.39	87	Horizontal
4	289.96	-99.75	-72.52	-20.00	52.52	27.23	1	Horizontal
5	542.16	-100.18	-68.23	-20.00	48.23	31.95	112	Horizontal
6	982.54	-100.52	-62.55	-20.00	42.55	37.97	323	Horizontal

Test Mode:	TX:136.025MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30	-100.55	-71.10	-20.00	51.10	29.45	180	Vertical
2	55.22	-101.46	-74.61	-20.00	54.61	26.85	43	Vertical
3	138.64	-101.61	-74.84	-20.00	54.84	26.77	26	Vertical
4	265.71	-100.63	-73.21	-20.00	53.21	27.42	343	Vertical
5	547.01	-99.92	-67.78	-20.00	47.78	32.14	360	Vertical
6	942.77	-99.99	-62.03	-20.00	42.03	37.96	317	Vertical

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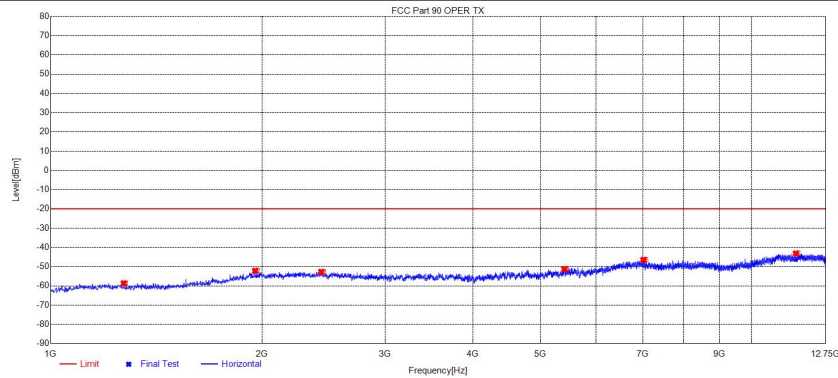
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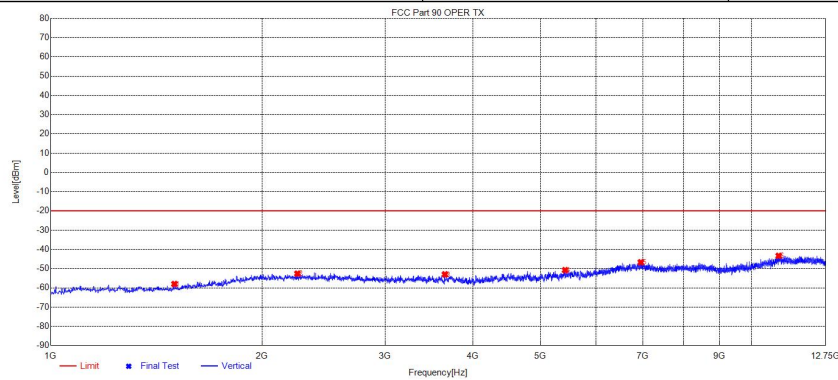
Radiated Emissions Above 1GHz

Test Mode:	TX:136.025MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1270.277	-54.55	-58.65	-20.00	38.65	-4.10	1	Horizontal
2	1956.5457	-53.64	-52.16	-20.00	32.16	1.48	224	Horizontal
3	2431.2931	-55.21	-52.74	-20.00	32.74	2.47	350	Horizontal
4	5405.5156	-56.95	-51.32	-20.00	31.32	5.63	50	Horizontal
5	7008.3758	-54.78	-46.48	-20.00	26.48	8.30	332	Horizontal
6	11566.6567	-56.57	-43.19	-20.00	23.19	13.38	216	Horizontal

Test Mode:	TX:136.025MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1500.6001	-53.88	-58.00	-20.00	38.00	-4.12	109	Vertical
2	2247.9748	-54.88	-52.61	-20.00	32.61	2.27	100	Vertical
3	3649.89	-55.35	-53.00	-20.00	33.00	2.35	242	Vertical
4	5418.4418	-56.46	-50.80	-20.00	30.80	5.66	59	Vertical
5	6948.4448	-54.96	-46.72	-20.00	26.72	8.24	43	Vertical
6	10930.9181	-56.97	-43.37	-20.00	23.37	13.60	43	Vertical

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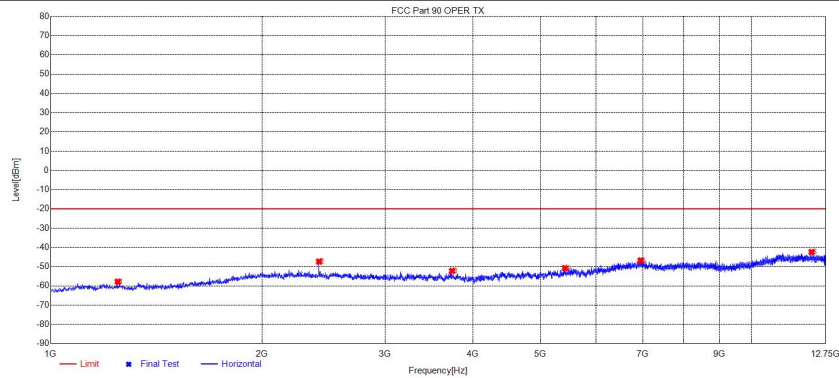
Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:155.7525MHz-FM			Polarity:		Horizontal		
FCC Part 90 OPER TX Level[dBm] 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 30M 100M 1G Limit Final Test Horizontal Frequency[Hz]								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	38.73	-101.22	-71.58	-20.00	51.58	29.64	291	Horizontal
2	54.25	-100.75	-73.70	-20.00	53.70	27.05	72	Horizontal
3	139.61	-101.38	-74.41	-20.00	54.41	26.97	317	Horizontal
4	282.2	-100.41	-73.15	-20.00	53.15	27.26	265	Horizontal
5	551.86	-101.04	-68.73	-20.00	48.73	32.31	10	Horizontal
6	945.68	-100.55	-62.52	-20.00	42.52	38.03	46	Horizontal

Test Mode:	TX:155.7525MHz-FM			Polarity:		Vertical		
FCC Part 90 OPER TX Level[dBm] 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 30M 100M 1G Limit Final Test Vertical Frequency[Hz]								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	41.64	-100.54	-71.16	-20.00	51.16	29.38	26	Vertical
2	58.13	-100.55	-74.17	-20.00	54.17	26.38	293	Vertical
3	139.61	-101.32	-74.35	-20.00	54.35	26.97	360	Vertical
4	299.66	-100.51	-73.23	-20.00	53.23	27.28	293	Vertical
5	552.83	-100.97	-68.62	-20.00	48.62	32.35	1	Vertical
6	988.36	-100.68	-62.79	-20.00	42.79	37.89	360	Vertical

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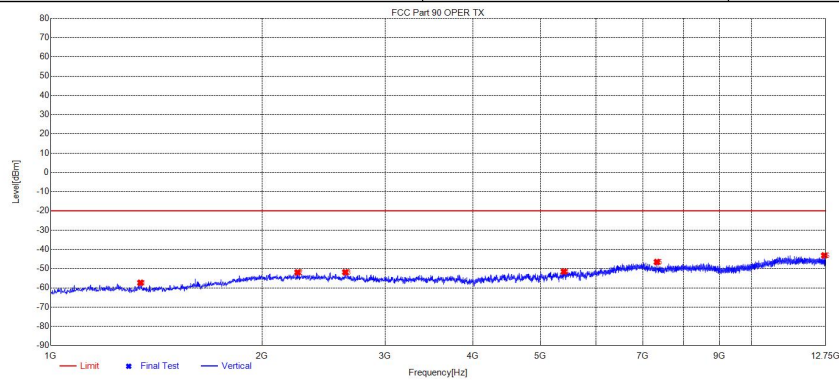
Radiated Emissions Above 1GHz

Test Mode:	TX:155.7525MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1245.5996	-53.74	-57.83	-20.00	37.83	-4.09	335	Horizontal
2	2413.6664	-49.82	-47.38	-20.00	27.38	2.44	69	Horizontal
3	3736.8487	-54.59	-52.20	-20.00	32.20	2.39	160	Horizontal
4	5414.9165	-56.44	-50.79	-20.00	30.79	5.65	3	Horizontal
5	6943.7444	-55.07	-46.83	-20.00	26.83	8.24	160	Horizontal
6	12178.8929	-55.64	-42.44	-20.00	22.44	13.20	0	Horizontal

Test Mode:	TX:155.7525MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1341.9592	-53.24	-57.35	-20.00	37.35	-4.11	154	Vertical
2	2249.1499	-54.23	-51.96	-20.00	31.96	2.27	45	Vertical
3	2631.0631	-54.16	-51.89	-20.00	31.89	2.27	229	Vertical
4	5394.9395	-57.17	-51.54	-20.00	31.54	5.63	154	Vertical
5	7325.6576	-54.31	-46.57	-20.00	26.57	7.74	338	Vertical
6	12695.9446	-56.57	-43.16	-20.00	23.16	13.41	263	Vertical

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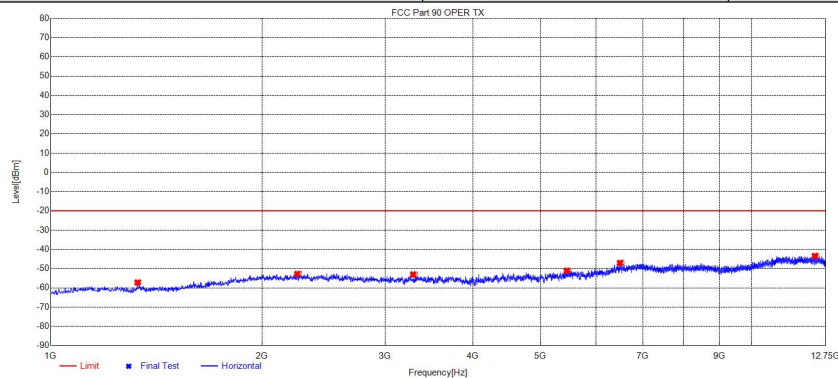
Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:173.975MHz-FM			Polarity:		Horizontal		
FCC Part 90 OPER TX Level[dBm] 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 30M 100M 1G Limit Final Test Horizontal Frequency[Hz]								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	34.85	-100.77	-71.26	-20.00	51.26	29.51	274	Horizontal
2	58.13	-100.12	-73.74	-20.00	53.74	26.38	119	Horizontal
3	139.61	-101.59	-74.62	-20.00	54.62	26.97	300	Horizontal
4	296.75	-100.06	-72.82	-20.00	52.82	27.24	351	Horizontal
5	518.88	-100.00	-68.79	-20.00	48.79	31.21	170	Horizontal
6	933.07	-100.09	-62.34	-20.00	42.34	37.75	308	Horizontal

Test Mode:	TX:173.975MHz-FM			Polarity:		Vertical		
FCC Part 90 OPER TX Level[dBm] 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90 30M 100M 1G Limit Final Test Vertical Frequency[Hz]								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	34.85	-95.12	-65.61	-20.00	45.61	29.51	44	Vertical
2	58.13	-101.00	-74.62	-20.00	54.62	26.38	1	Vertical
3	139.61	-100.68	-73.71	-20.00	53.71	26.97	9	Vertical
4	256.98	-100.19	-72.79	-20.00	52.79	27.40	155	Vertical
5	546.04	-101.17	-69.06	-20.00	49.06	32.11	95	Vertical
6	979.63	-100.04	-62.08	-20.00	42.08	37.96	360	Vertical

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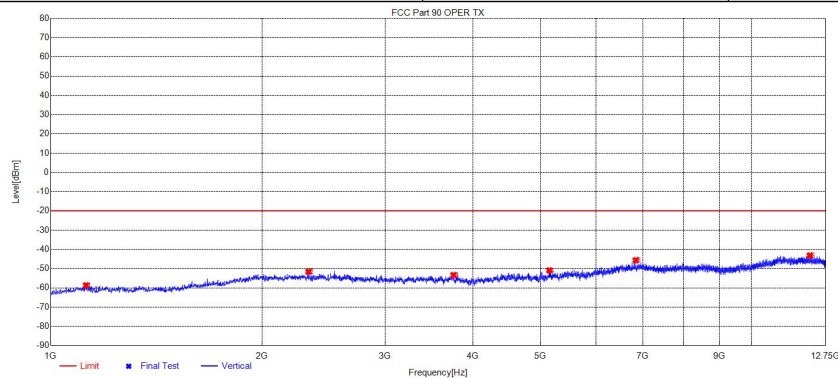
Radiated Emissions Above 1GHz

Test Mode:	TX:173.975MHz-FM	Polarity:	Horizontal
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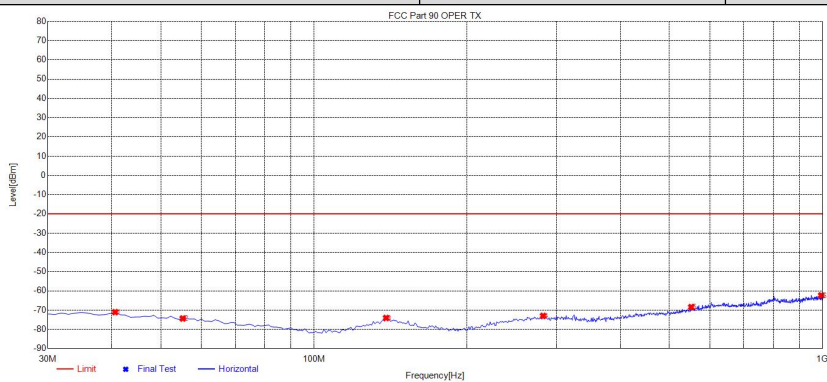
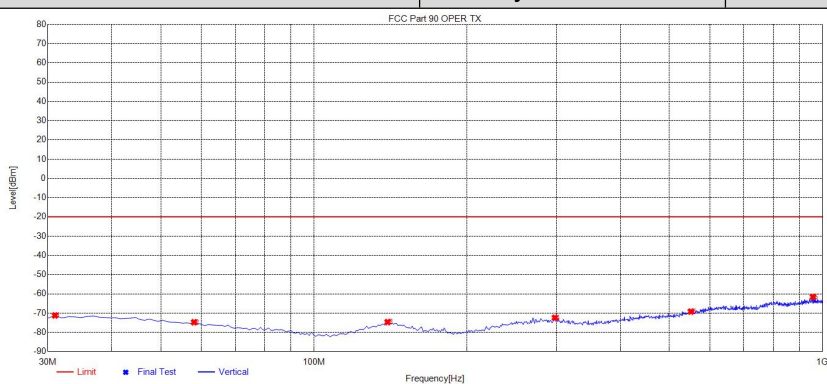
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1329.0329	-53.11	-57.21	-20.00	37.21	-4.10	216	Horizontal
2	2246.7997	-55.03	-52.76	-20.00	32.76	2.27	216	Horizontal
3	3287.9538	-54.99	-53.03	-20.00	33.03	1.96	326	Horizontal
4	5446.6447	-56.76	-51.06	-20.00	31.06	5.70	199	Horizontal
5	6486.6237	-54.70	-47.07	-20.00	27.07	7.63	342	Horizontal
6	12310.5061	-56.64	-43.41	-20.00	23.41	13.23	32	Horizontal

Test Mode:	TX:173.975MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1122.2122	-54.64	-58.70	-20.00	38.70	-4.06	208	Vertical
2	2331.4081	-53.96	-51.59	-20.00	31.59	2.37	234	Vertical
3	3754.4754	-55.76	-53.36	-20.00	33.36	2.40	122	Vertical
4	5144.6395	-56.12	-50.90	-20.00	30.90	5.22	10	Vertical
5	6833.2833	-53.75	-45.66	-20.00	25.66	8.09	301	Vertical
6	12107.2107	-56.37	-43.20	-20.00	23.20	13.17	301	Vertical

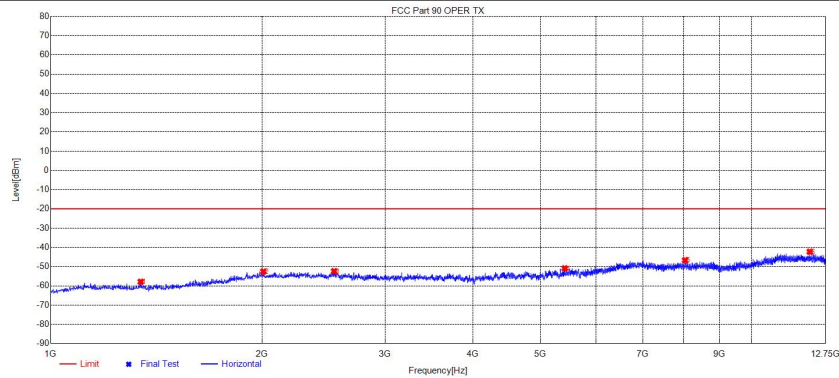
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Radiated Emissions 30MHz to 1GHz								
Test Mode:	TX:136.025MHz-4FSK			Polarity:		Horizontal		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	40.67	-100.59	-71.04	-20.00	51.04	29.55	53	Horizontal
2	55.22	-101.20	-74.35	-20.00	54.35	26.85	27	Horizontal
3	138.64	-100.85	-74.08	-20.00	54.08	26.77	166	Horizontal
4	282.2	-100.23	-72.97	-20.00	52.97	27.26	184	Horizontal
5	551.86	-100.71	-68.40	-20.00	48.40	32.31	62	Horizontal
6	994.18	-100.18	-62.33	-20.00	42.33	37.85	210	Horizontal
Test Mode:	TX:136.025MHz-4FSK			Polarity:		Vertical		
FCC Part 90 OPER TX 								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30.97	-100.76	-71.20	-20.00	51.20	29.56	347	Vertical
2	58.13	-101.11	-74.73	-20.00	54.73	26.38	9	Vertical
3	139.61	-101.61	-74.64	-20.00	54.64	26.97	269	Vertical
4	297.72	-99.68	-72.43	-20.00	52.43	27.25	166	Vertical
5	550.89	-101.45	-69.20	-20.00	49.20	32.25	243	Vertical
6	957.32	-99.67	-61.61	-20.00	41.61	38.06	209	Vertical

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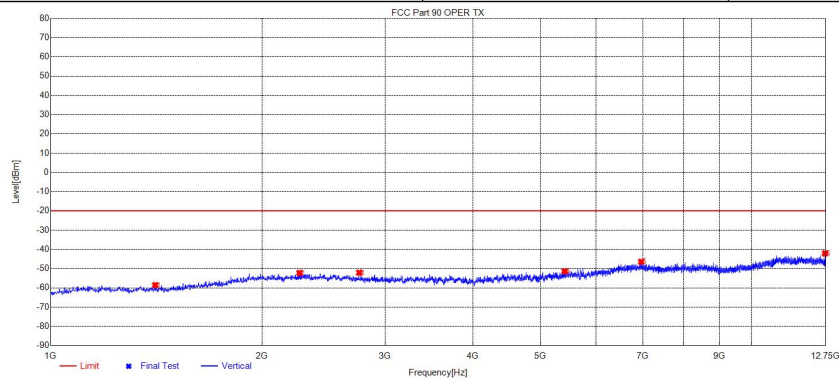
Radiated Emissions Above 1GHz

Test Mode:	TX:136.025MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1343.1343	-53.77	-57.88	-20.00	37.88	-4.11	201	Horizontal
2	2009.4259	-54.59	-52.56	-20.00	32.56	2.03	0	Horizontal
3	2535.8786	-54.83	-52.37	-20.00	32.37	2.46	326	Horizontal
4	5410.216	-56.56	-50.91	-20.00	30.91	5.65	351	Horizontal
5	8036.6037	-54.32	-46.69	-20.00	26.69	7.63	351	Horizontal
6	12106.0356	-55.43	-42.25	-20.00	22.25	13.18	318	Horizontal

Test Mode:	TX:136.025MHz-4FSK	Polarity:	Vertical
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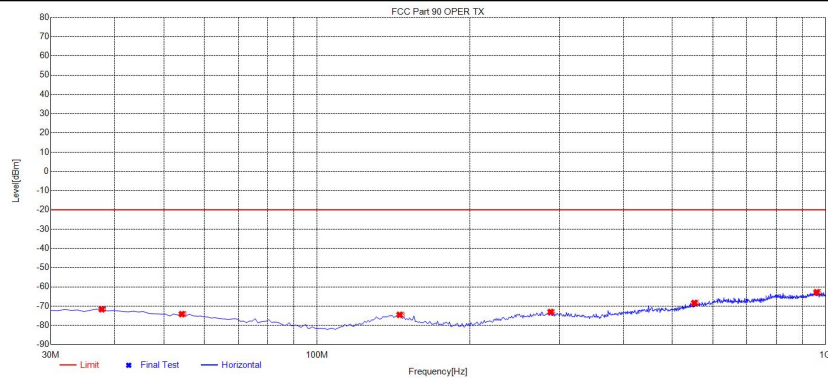


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1408.9409	-54.45	-58.57	-20.00	38.57	-4.12	209	Vertical
2	2263.2513	-54.53	-52.25	-20.00	32.25	2.28	76	Vertical
3	2754.4504	-54.12	-52.10	-20.00	32.10	2.02	134	Vertical
4	5409.0409	-57.07	-51.43	-20.00	31.43	5.64	92	Vertical
5	6956.6707	-54.70	-46.45	-20.00	26.45	8.25	51	Vertical
6	12728.8479	-55.51	-42.08	-20.00	22.08	13.43	334	Vertical

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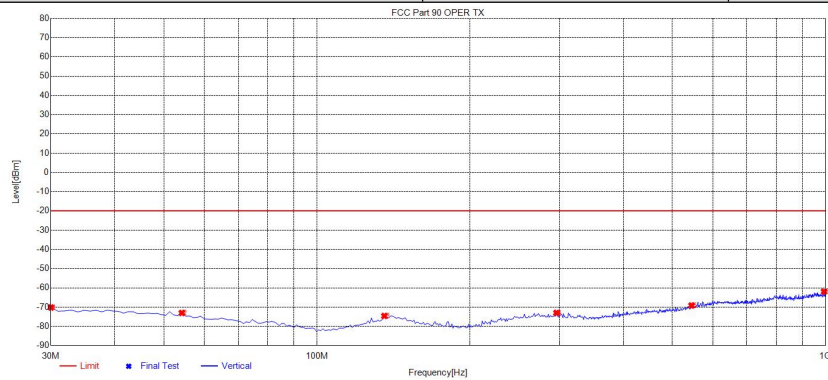
Radiated Emissions 30MHz to 1GHz

Test Mode:	TX:155.7525MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	37.76	-101.25	-71.62	-20.00	51.62	29.63	229	Horizontal
2	54.25	-101.21	-74.16	-20.00	54.16	27.05	160	Horizontal
3	145.43	-100.79	-74.51	-20.00	54.51	26.28	135	Horizontal
4	288.02	-100.27	-73.03	-20.00	53.03	27.24	6	Horizontal
5	551.86	-100.68	-68.37	-20.00	48.37	32.31	343	Horizontal
6	960.23	-100.82	-62.82	-20.00	42.82	38.00	6	Horizontal

Test Mode:	TX:155.7525MHz-4FSK	Polarity:	Vertical
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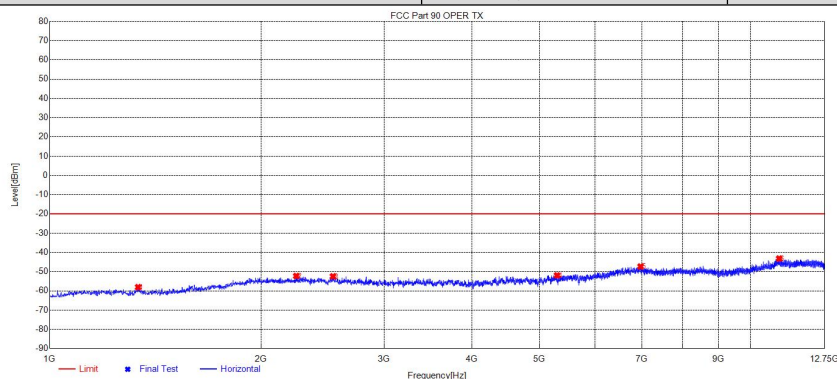


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30	-99.61	-70.16	-20.00	50.16	29.45	344	Vertical
2	54.25	-100.07	-73.02	-20.00	53.02	27.05	360	Vertical
3	135.73	-100.80	-74.57	-20.00	54.57	26.23	352	Vertical
4	295.78	-100.21	-72.99	-20.00	52.99	27.22	267	Vertical
5	545.07	-101.23	-69.14	-20.00	49.14	32.09	360	Vertical
6	993.21	-99.80	-61.95	-20.00	41.95	37.85	344	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.

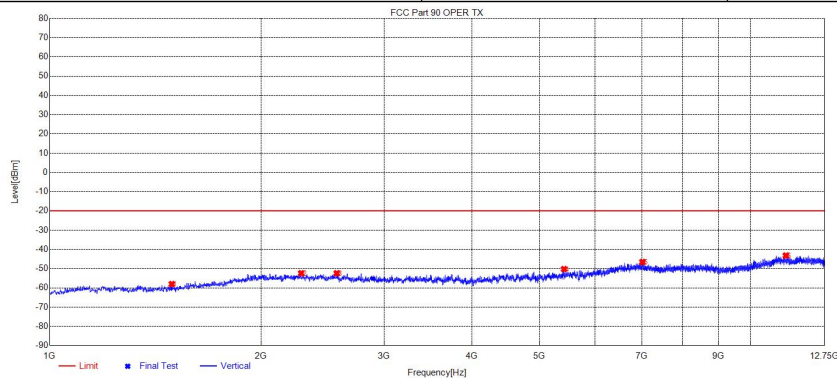
Radiated Emissions Above 1GHz

Test Mode:	TX:155.7525MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1336.0836	-53.96	-58.07	-20.00	38.07	-4.11	226	Horizontal
2	2246.7997	-54.55	-52.28	-20.00	32.28	2.27	117	Horizontal
3	2534.7035	-54.91	-52.45	-20.00	32.45	2.46	209	Horizontal
4	5292.7043	-57.41	-51.96	-20.00	31.96	5.45	276	Horizontal
5	6966.0716	-55.63	-47.36	-20.00	27.36	8.27	351	Horizontal
6	10983.7984	-56.98	-43.22	-20.00	23.22	13.76	76	Horizontal

Test Mode:	TX:155.7525MHz-4FSK	Polarity:	Vertical
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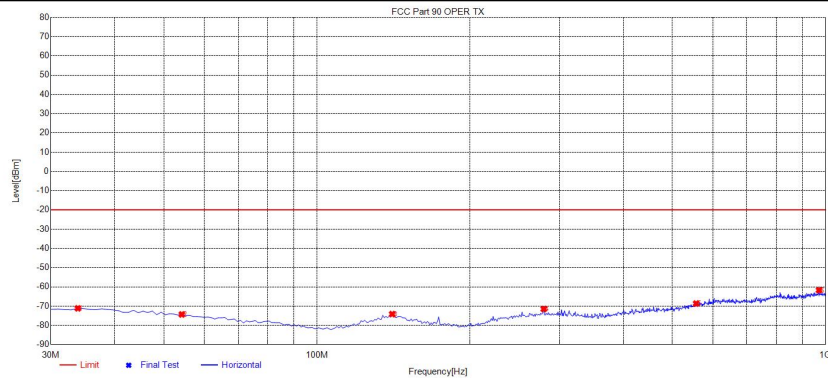


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1492.3742	-53.90	-58.03	-20.00	38.03	-4.13	53	Vertical
2	2283.2283	-54.72	-52.41	-20.00	32.41	2.31	352	Vertical
3	2566.4316	-54.82	-52.43	-20.00	32.43	2.39	360	Vertical
4	5416.0916	-55.89	-50.24	-20.00	30.24	5.65	311	Vertical
5	7007.2007	-54.89	-46.59	-20.00	26.59	8.30	120	Vertical
6	11227.0477	-56.86	-43.22	-20.00	23.22	13.64	153	Vertical

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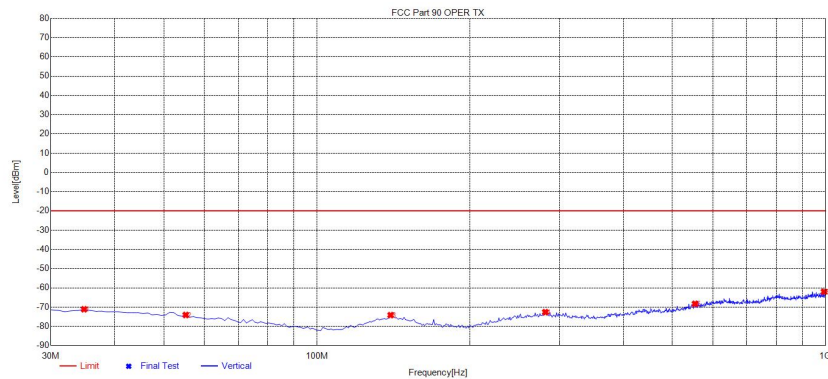
Radiated Emissions 30MHz to 1GHz

Test Mode:	TX:173.975MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	33.88	-100.66	-71.15	-20.00	51.15	29.51	171	Horizontal
2	54.25	-101.37	-74.32	-20.00	54.32	27.05	0	Horizontal
3	140.58	-101.11	-74.14	-20.00	54.14	26.97	8	Horizontal
4	279.29	-98.75	-71.48	-20.00	51.48	27.27	231	Horizontal
5	556.71	-101.20	-68.66	-20.00	48.66	32.54	154	Horizontal
6	970.9	-99.60	-61.72	-20.00	41.72	37.88	231	Horizontal

Test Mode:	TX:173.975MHz-4FSK	Polarity:	Vertical
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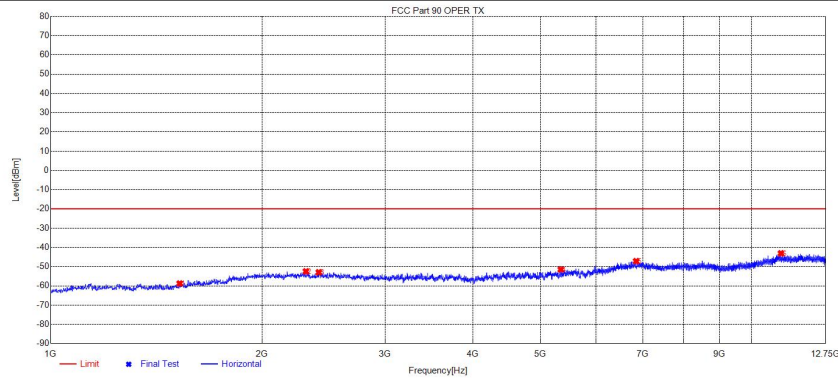


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	34.85	-100.62	-71.11	-20.00	51.11	29.51	137	Vertical
2	55.22	-100.94	-74.09	-20.00	54.09	26.85	77	Vertical
3	139.61	-101.13	-74.16	-20.00	54.16	26.97	120	Vertical
4	281.23	-99.86	-72.60	-20.00	52.60	27.26	34	Vertical
5	553.8	-100.67	-68.27	-20.00	48.27	32.40	9	Vertical
6	993.21	-99.84	-61.99	-20.00	41.99	37.85	232	Vertical

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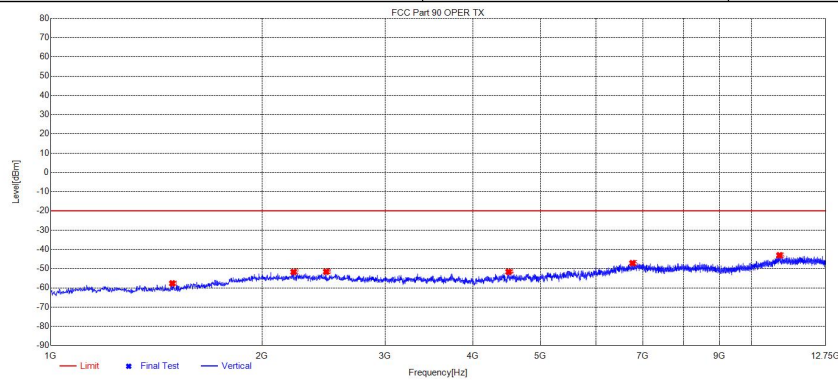
Radiated Emissions Above 1GHz

Test Mode:	TX:173.975MHz-4FSK	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1526.4526	-54.95	-58.76	-20.00	38.76	-3.81	100	Horizontal
2	2311.4311	-54.82	-52.48	-20.00	32.48	2.34	74	Horizontal
3	2411.3161	-55.41	-52.96	-20.00	32.96	2.45	159	Horizontal
4	5340.8841	-57.01	-51.48	-20.00	31.48	5.53	342	Horizontal
5	6841.5092	-55.28	-47.17	-20.00	27.17	8.11	342	Horizontal
6	11010.8261	-56.92	-43.11	-20.00	23.11	13.81	0	Horizontal

Test Mode:	TX:173.975MHz-4FSK	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1490.024	-53.54	-57.67	-20.00	37.67	-4.13	319	Vertical
2	2219.772	-53.99	-51.74	-20.00	31.74	2.25	10	Vertical
3	2471.2471	-54.11	-51.61	-20.00	31.61	2.50	1	Vertical
4	4499.5	-56.09	-51.66	-20.00	31.66	4.43	277	Vertical
5	6759.2509	-55.17	-47.17	-20.00	27.17	8.00	294	Vertical
6	10959.1209	-56.77	-43.09	-20.00	23.09	13.68	269	Vertical

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Attestation of Global Compliance(Shenzhen)Co., Ltd

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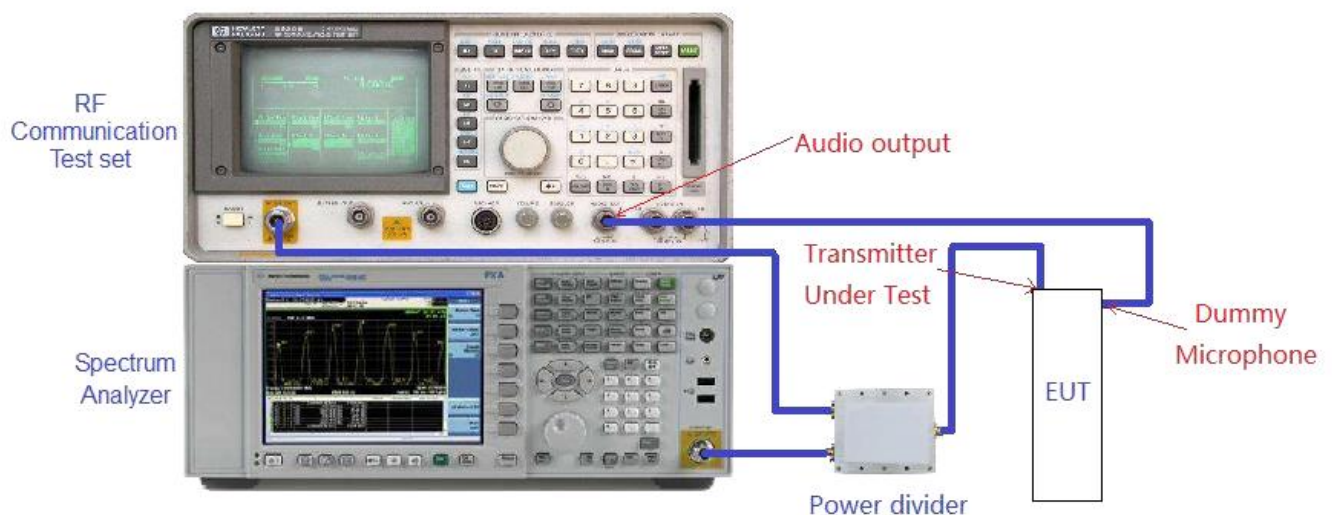
8.5 Emission Mask Measurement Part

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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