

Page 1 of 53

FCC Test Report

Report No.: AGC11532231003FR01

FCC ID	:	2AMJRMINI-MX3
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Smartphone Stabilizer
BRAND NAME	:	MOZA
MODEL NAME	:	Mini MX3, Mini MX
APPLICANT	:	Shenzhen Gudsen Technology Co., Ltd
DATE OF ISSUE	:	Apr. 07, 2024
STANDARD(S)	:	FCC Part 15 Subpart C §15.247
REPORT VERSION	:	V1.0







Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	Apr. 07, 2024	Valid	Initial Release	



Table of Contents

1. General Information	5
2. Product Information	6
2.1 Product Technical Description	6
2.2 Test Frequency List	6
2.3 Related Submittal(S) / Grant (S)	7
2.4 Test Methodology	7
2.5 Special Accessories	7
2.6 Equipment Modifications	7
2.7 Antenna Requirement	7
3. Test Environment	8
3.1 Address of the Test Laboratory	
3.2 Test Facility	
3.3 Environmental Conditions	9
3.4 Measurement Uncertainty	9
3.5 List of Equipment Use	
4.System Test Configuration	
4.1 EUT Configuration	
4.2 EUT Exercise	
4.3 Configuration of Tested System	
4.4 Equipment Used In Tested System	
4.5 Summary of Test Results	14
5. Description of Test Modes	
6. Duty Cycle Measurement	
7. RF Output Power Measurement	
7.1 Provisions Applicable	
7.2 Measurement Procedure	
7.3 Measurement Setup (Block Diagram of Configuration)	
7.4 Measurement Result	

8.2 Measurement Procedure	
8.3 Measurement Setup (Block Diagram of Configuration)	
8.4 Measurement Results	
9. Power Spectral Density Measurement	
9.1 Provisions Applicable	
9.2 Measurement Procedure	
9.3 Measurement Setup (Block Diagram of Configuration)	
9.4 Measurement Results	27
10. Conducted Band Edge and Out-of-Band Emissions	27
10.1 Provisions Applicable	29
10.2 Measurement Procedure	29
10.3 Measurement Setup (Block Diagram of Configuration)	29
10.4 Measurement Results	30
11. Radiated Spurious Emission	36
11.1 Measurement Limit	36
11.2 Measurement Procedure	36
11.3 Measurement Setup (Block Diagram of Configuration)	39
11.4 Measurement Result	40
12. AC Power Line Conducted Emission Test	49
12.1 Measurement Limit	49
12.2 Measurement Setup (Block Diagram of Configuration)	49
12.3 Preliminary Procedure of Line Conducted Emission Test	50
12.4 Final Procedure of Line Conducted Emission Test	50
12.5 Measurement Results	51
12.5 Measurement Results	



1. General Information

Applicant	Shenzhen Gudsen Technology Co., Ltd
Address	Room 1903-1904, Building 3, Nanshan Zhiyuan Chongwen Park, No. 3370 Liuxian Avenue, Nanshan District, Shenzhen, China
Manufacturer	Shenzhen Gudsen Technology Co., Ltd
Address	Room 1903-1904, Building 3, Nanshan Zhiyuan Chongwen Park, No. 3370 Liuxian Avenue, Nanshan District, Shenzhen, China
Factory	Shenzhen Gudsen Technology Co., Ltd
Address	Room 1903-1904, Building 3, Nanshan Zhiyuan Chongwen Park, No. 3370 Liuxian Avenue, Nanshan District, Shenzhen, China
Product Designation	Smartphone Stabilizer
Brand Name	MOZA
Test Model	Mini MX3
Series Model(s)	Mini MX
Difference Description	All the series models are the same as the test model except for the model names.
Date of receipt of test item	Oct. 16, 2023
Date of Test	Oct. 16, 2023 to Apr. 07, 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-BLE-V1

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

Thea Yuang Prepared By Thea Huang Apr. 07, 2024 (Project Engineer) **Reviewed By** Calvin Liu Apr. 07, 2024 (Reviewer)

Approved By

Max Zhan

Max Zhang (Authorized Officer)

Apr. 07, 2024



2. Product Information

2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V5.1
Modulation Type	BLE GFSK 1Mbps GFSK 2Mbps
Number of channels	40
Carrier Frequency of Each Channel	40 Channels (37 Data channels + 3 advertising channels)
Channel Separation	2 MHz
Maximum Transmitter Power	-5.311dBm (0.000294 W)
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	2.64dBi
Power Supply	DC 11.1V by battery or DC 5V by adapter

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency			
2400~2483.5MHz	0	2402 MHz			
	1	2404 MHz			
	:	:			
	19	2440MHz			
	:	:			
	38	2478 MHz			
	39	2480 MHz			
Note: f = 2402 + 2*k MHz, k = 0,, 39 f is the operating frequency (MHz); k is the operating channel.					



2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AMJRMINI-MX3**, filing to comply with Part 2, Part 15 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 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 2.64dBi.



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
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 11.1V by battery

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	U _c = ±2 %
Uncertainty of Occupied Channel Bandwidth	U _c = ±2 %



3.5 List of Equipment Use

• R	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)	
\boxtimes	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31	
	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2023-03-03	2024-03-02	
\boxtimes	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2024-02-01	2025-01-31	
	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2023-03-03	2024-03-02	
	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2024-02-01	2025-01-31	
	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08	
\boxtimes	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31	
\boxtimes	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A	
	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A	
• R	adiated Spurio	Sus Emission					Next Oct. Data	
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
\boxtimes	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17	
\bowtie	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31	
	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02	
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31	
\boxtimes	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11	
\boxtimes	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04	
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10	
\boxtimes	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2025-03-22	
\boxtimes	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23	
\boxtimes	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03	
	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31	
	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08	
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08	



• A	AC Power Line Conducted Emission								
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
\boxtimes	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02		
\boxtimes	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2024-06-08		
\boxtimes	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024-06-02		



Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
\boxtimes	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
\boxtimes	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0



4.System Test Configuration

4.1 EUT Configuration

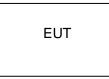
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

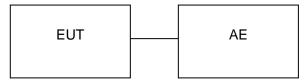
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:



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	XIAOMI	MI 10	XIAOMI		
2	Adapter	HW-200440C 00	HUAWEI		

Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1					



4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
4	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
5	§15.209	Radiated Emission& Band Edge	Pass
6	§15.207	AC Power Line Conducted Emission	Pass



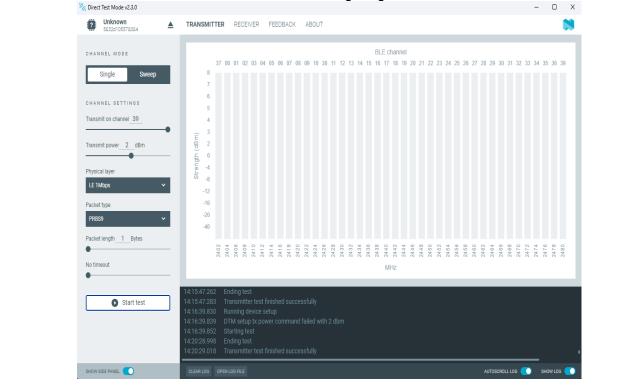
5. Description of Test Modes

	Summary Table of Test Cases				
	Data Rate / Modulation				
Test Item	Bluetooth – LE(1Mbps) / GFSK				
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered or AC/DC adapter)				
Radiated & Conducted Test Cases	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered or AC/DC adapter)				
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered or AC/DC adapter)				
AC Conducted Emission	Bluetooth Link + Battery + USB Cable (Charging from AC Adapter)				

Note:

- Only the result of the worst case was recorded in the report, if no other cases. 1.
- The battery is full-charged during the test.
- 2. 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.

Software Setting Diagram





6. Duty Cycle Measurement

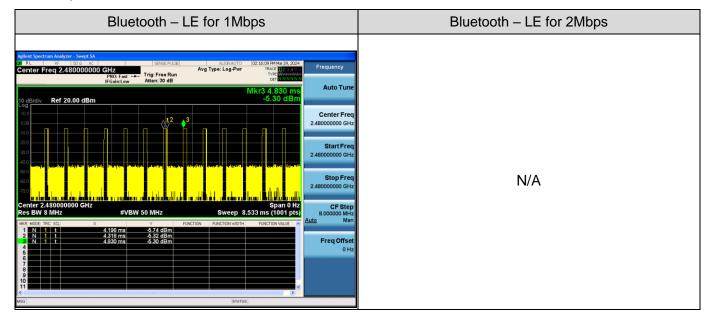
The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(µs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	120	18.99	7.21	8.33

Remark:

- 1. Duty Cycle factor = $10 \times \log(1/\text{Duty cycle})$
- 2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value

The test plots as follows:





7. RF Output Power Measurement

7.1 Provisions Applicable

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

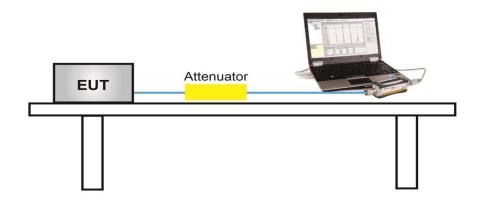
7.2 Measurement Procedure

For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the RBW > DTS bandwidth
- 3. Set the VBW \geq [3 x RBW].
- 4. Span≥[3 x RBW].
- 5. Sweep= auto couple.
- 6. Detector Function= Peak.
- 7. Trace mode= Max hold.
- 8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:
- 1. The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 2. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

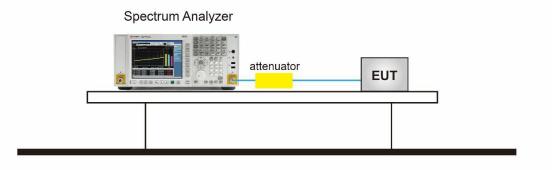
7.3 Measurement Setup (Block Diagram of Configuration)

For Average power test setup





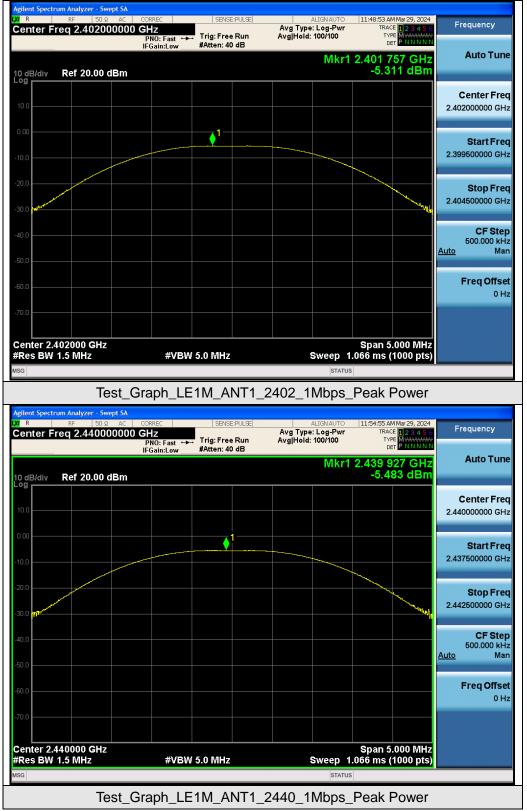
For peak power test setup



7.4 Measurement Result

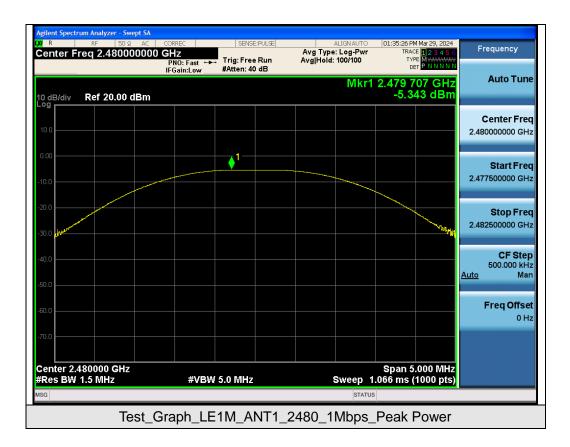
Test Data of Conducted Output Power					
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
	2402	-5.311	≪30	Pass	
GFSK_1Mbps	2440	-5.483	≪30	Pass	
	2480	-5.343	≪30	Pass	





Test Graphs of Conducted Output Power







8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

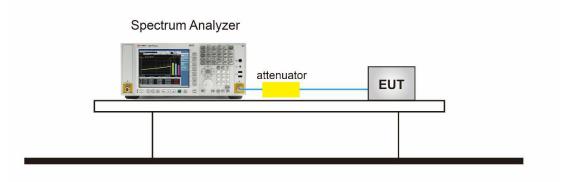
The minimum 6 dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 5. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)





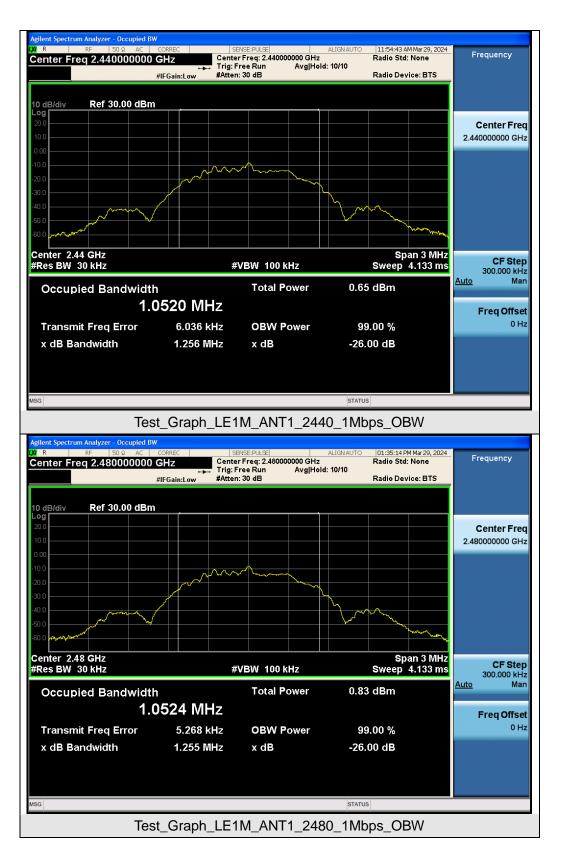
8.4 Measurement Results

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
GFSK_1Mbps	2402	1.049	0.690	≥0.5	Pass
	2440	1.052	0.690	≥0.5	Pass
	2480	1.052	0.691	≥0.5	Pass

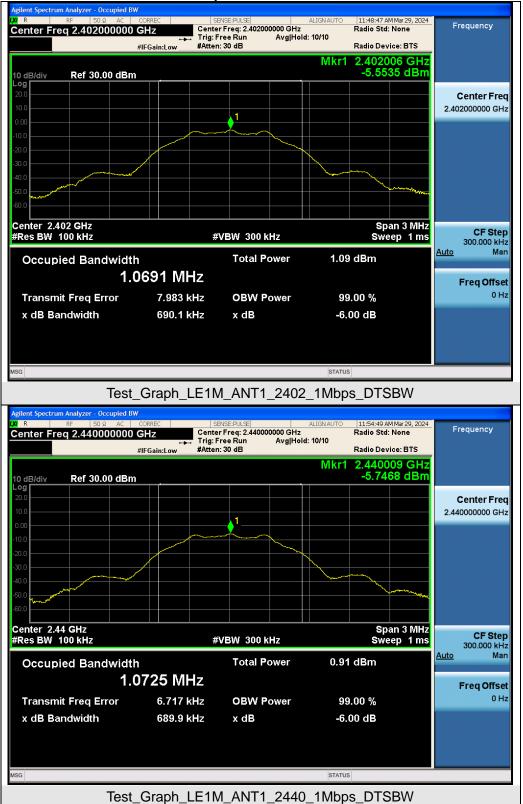
ectrum Analyzer - Occupied BW 11:48:41 AM Mar 29, 2024 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Center Freq 2.402000000 GHz Avg|Hold: 10/10 #IFGain:Low Radio Device: BTS Ref 30.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 4.133 ms **CF** Step #VBW 100 kHz 300.000 kHz <u>Auto</u> Man **Total Power** 0.82 dBm **Occupied Bandwidth** 1.0488 MHz Freq Offset Transmit Freq Error 7.391 kHz **OBW Power** 99.00 % 0 Hz x dB Bandwidth 1.256 MHz x dB -26.00 dB STATUS Test_Graph_LE1M_ANT1_2402_1Mbps_OBW

Test Graphs of Occupied Bandwidth



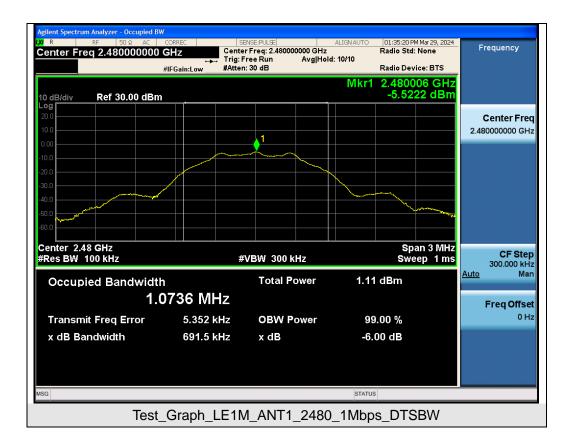






Test Graphs of DTS Bandwidth







9. Power Spectral Density Measurement

9.1 Provisions Applicable

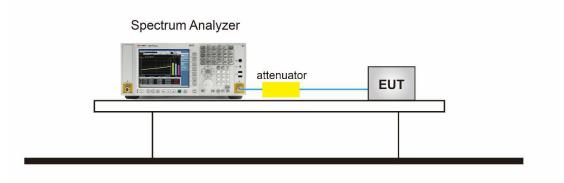
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

9.3 Measurement Setup (Block Diagram of Configuration)

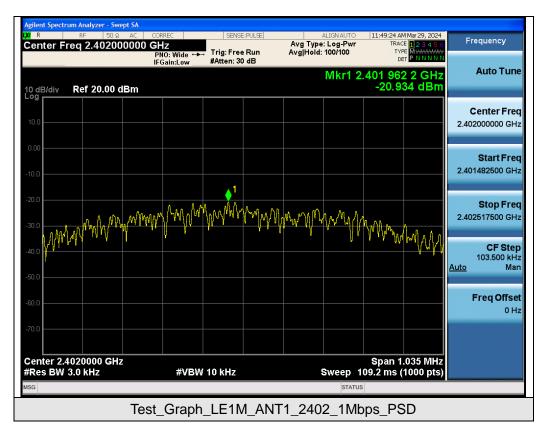




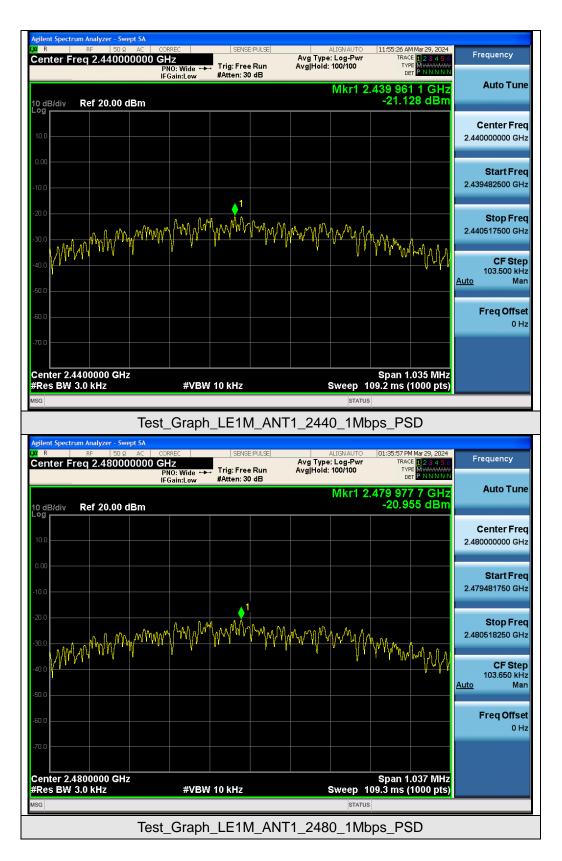
9.4 Measurement Results

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail	
	2402	-20.934	≪8	Pass	
GFSK_1Mbps	2440	-21.128	≪8	Pass	
	2480	-20.955	≤8	Pass	

Test Graphs of Conducted Output Power Spectral Density









10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

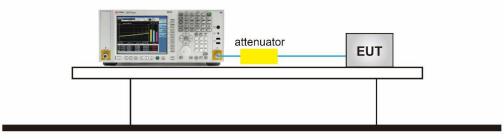
The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

10.2 Measurement Procedure

- Reference level measurement
- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to \geq 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW \geq 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize
- Emission level measurement
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

10.3 Measurement Setup (Block Diagram of Configuration)

Spectrum Analyzer





esting/Inspection

10.4 Measurement Results



Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

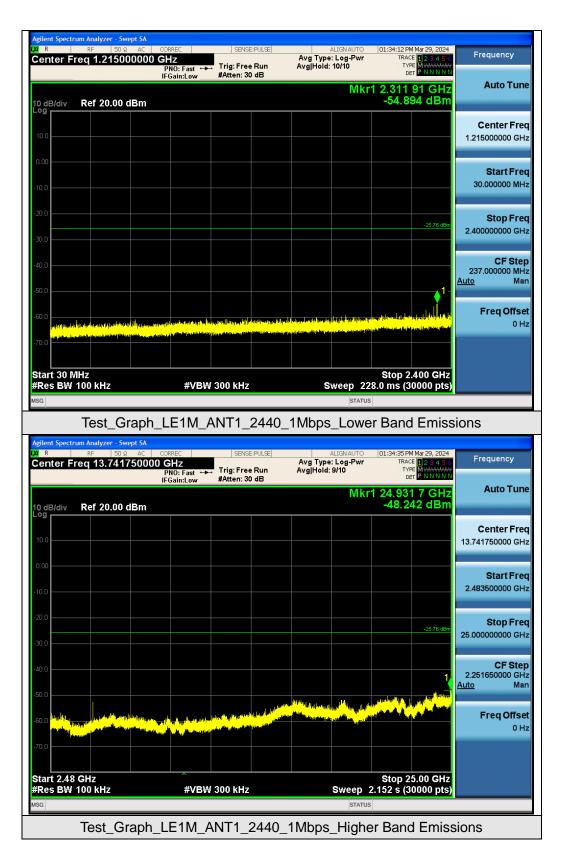
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Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.





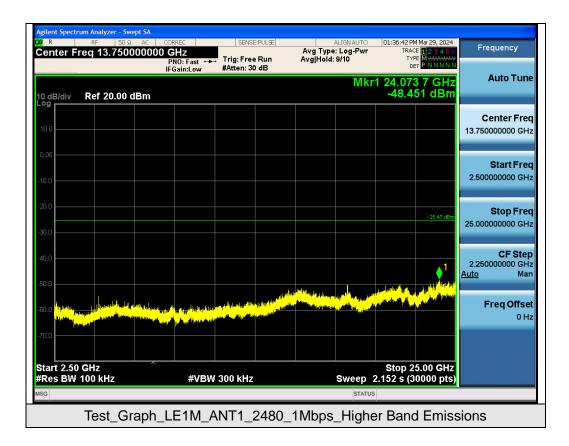




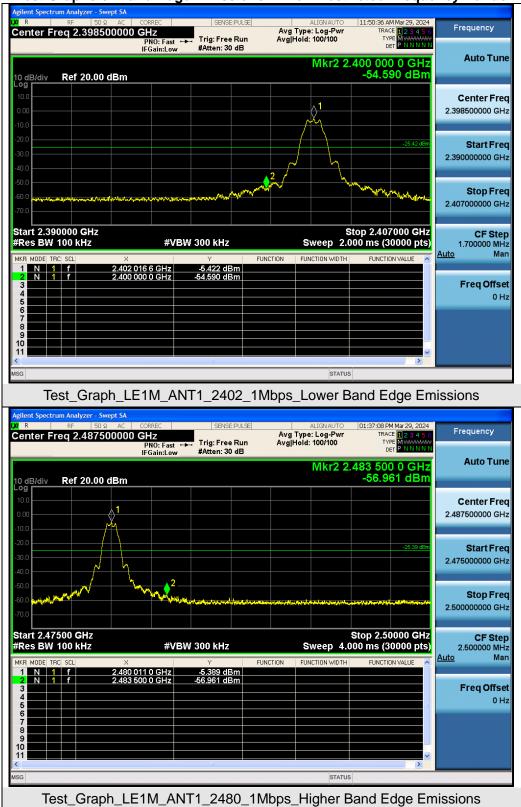












Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



11. Radiated Spurious Emission

11.1 Measurement Limit

FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Any rep Ashang alternative b(provided pther, transmitter aloperates a for is longer than o 0.e4n seconds) e Orbin cases in where is the 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 15 days 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.



1GHz~26.5GHz

1MHz/3MHz for Peak, 1MHz/3MHz for Average

pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

 Spectrum Parameter
 Setting

 Start ~Stop Frequency
 9kHz~150kHz/RB 200Hz for QP

 Start ~Stop Frequency
 150kHz~30MHz/RB 9kHz for QP

 Start ~Stop Frequency
 30MHz~1000MHz/RB 120kHz for QP

The following table is the setting of spectrum analyzer and receiver.

Start ~Stop Frequency

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP



• Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

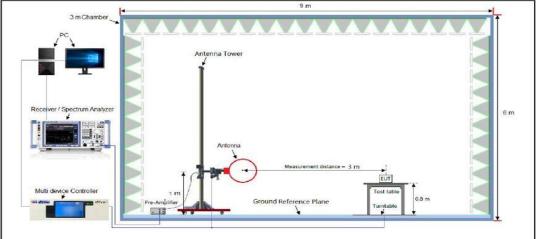
<u>Average Measurements above 1GHz (Method VB)</u>

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW setting requirements are as follows:
- 4. If the EUT is configured to transmit with duty cycle \ge 98%, set VBW = 10 Hz.
- 5. If the EUT duty cycle is < 98%, set VBW \ge 1/T. T is the minimum transmission duration.
- 6. Detector = Peak
- 7. Sweep time = auto
- 8. Trace mode = max hold
- 8. Trace was allowed to stabilize

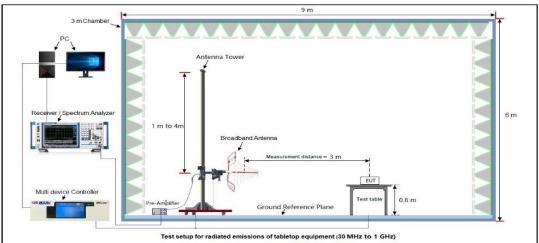


11.3 Measurement Setup (Block Diagram of Configuration)

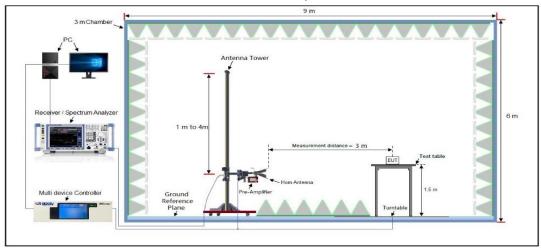




Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agccert.com

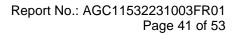


11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

		Radiate	ed Emissio	on lest Res	suits at 301	VIHZ-1GH	IZ		
EUT Name	Smartp	hone Stabilize	er		Model	Name	I	Mini M)	X3
Temperature	23.8℃ Relat			Relati	ve Humic	dity :	59.8%		
Pressure	960hPa	3			Test V	oltage	I	DC 11.	1V by battery
Test Mode	Mode 1				Anten	na Polari	ity	Horizor	ntal
72.0	dBu∀/m								
32								mit: -	
-8		50 60 70 8			30		500 600	700 1	
		50 60 70 8		(MHz) Correct Factor		0 400	500 600 Over	700 1	1000.000
	100 40	50 60 70 8	00 Reading	(MHz) Correct	300 Measure-	0 400		700 1 Detecte	
	100 40	50 60 70 8 k. Freq.	no Reading Level	(MHz) Correct Factor	30 Measure- ment	0 400 Limit	Over		or
	000 40 No. M	50 60 70 8 k. Freq. MHz	Reading Level dBuV	(MHz) Correct Factor dB	300 Measure- ment dBuV/m	0 400 Limit dBuV/m	Over dB	Detect	or k
	No. M	50 60 70 8 k. Freq. MHz 38.6160	00 Reading Level dBuV 9.25	(MHz) Correct Factor dB 13.30	300 Measure- ment dBuV/m 22.55	0 400 Limit dBuV/m 40.00	Over dB -17.45	Detecto	or K
	No. M	50 60 70 8 k. Freq. MHz 38.6160 120.6991	Reading Level dBuV 9.25 5.52	(MHz) Correct Factor dB 13.30 16.36	300 Measure- ment dBuV/m 22.55 21.88	0 400 Limit dBuV/m 40.00 43.50	Over dB -17.45 -21.62	Detecto peak	or K K
	No. M	50 60 70 8 k. Freq. MHz 38.6160 120.6991 220.6170	00 Reading Level dBuV 9.25 5.52 8.40	(MHz) Correct Factor dB 13.30 16.36 14.43	300 Measure- ment dBuV/m 22.55 21.88 22.83	0 400 Limit dBuV/m 40.00 43.50 46.00	Over dB -17.45 -21.62 -23.17	Detecto peak peak peak	or k k k





		Radiate	ed Emissio	n Test Res	ults at 30	MHz-1GF	lz	
EUT Name	Smartph	none Stabiliz	er		Model	Name		Mini MX3
Temperature	23.8 ℃				Relati	ve Humi	dity	59.8%
Pressure	960hPa				Test V	/oltage		DC 11.1V by batte
Test Mode	Mode 1				Anten	na Polar	ity	Vertical
72.0	dBuV/m							
32 "M	withing	And the second sec		Malman Malana	L	an and the second	Ma	nit: rigin:
-8	100 40	50 60 70 8	30	(MHz)	300	0 400	500 600	700 1000.000
	No. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	59.2325	8.17	17.09	25.26	40.00	-14.74	peak
	2	159.2249	6.43	18.20	24.63	43.50	-18.87	peak
	3	262.8955	6.61	17.97	24.58	46.00	-21.42	peak
	4	444.8514	6.47	25.88	32.35	46.00	-13.65	peak
	5	716.6820 955.4380	6.85	28.68 30.38	35.53	46.00	-10.47	peak

RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.



nartphone	Factor (dB) 0.08 0.08 2.21 2.21 2.21 e Loss – Pre-	Emission (dBµV/i 46.73 37.39 43.58 34.62	Test Vo Antenn Level (m) 3 9 8	Limits (dBµV/m) 74 54 74 54	59.8% DC 11.1\ Horizonta Margin (dB) -27.27 -16.61 -30.42 -19.38	Value Type peak AVG peak AVG
bde 1 Reading $3\mu \vee$) 365 31 37 41 br + Cable hartphone	(dB) 0.08 0.08 2.21 2.21 2.21	Emission (dBµV/i 46.73 37.39 43.58 34.62	Antenn Level (m) 3 9 2	Limits (dBµV/m) 74 54 74 54	Margin (dB) -27.27 -16.61 -30.42 -19.38	al Value Type peak AVG peak AVG
Reading 3µV) .65 .31 .37 .41 41 	(dB) 0.08 0.08 2.21 2.21 2.21	Emission (dBµV/i 46.73 37.39 43.58 34.62	Level (m)	Limits (dBµV/m) 74 54 74 54 54	Margin (dB) -27.27 -16.61 -30.42 -19.38	Value Type peak AVG peak AVG
3µV) 65 31 37 41 41 41 	(dB) 0.08 0.08 2.21 2.21 2.21	(dBµV/r 46.73 37.39 43.58 34.62 ∙amplifier.	2 2	(dBµV/m) 74 54 74 54 54	(dB) -27.27 -16.61 -30.42 -19.38	peak AVG peak AVG
3µV) 65 31 37 41 41 41 	(dB) 0.08 0.08 2.21 2.21 2.21	(dBµV/r 46.73 37.39 43.58 34.62 ∙amplifier.	2 2	(dBµV/m) 74 54 74 54 54	(dB) -27.27 -16.61 -30.42 -19.38	peak AVG peak AVG
65 .31 .37 .41 or + Cable	0.08 0.08 2.21 2.21 2.21	46.73 37.39 43.58 34.62	3 9 8 2 	74 54 74 54	-27.27 -16.61 -30.42 -19.38	peak AVG peak AVG
.31 .37 .41 or + Cable	0.08 2.21 2.21 2.21	37.39 43.58 34.62	9 8 2	54 74 54	-16.61 -30.42 -19.38	AVG peak AVG
.37 .41 or + Cable	2.21 2.21	43.58 34.62	2	74 54	-30.42 -19.38	peak AVG
or + Cable	2.21 2 Loss – Pre-	amplifier.	2	54	-19.38	AVG
or + Cable	e Loss – Pre-	amplifier.				
nartphone			Model 1	Name	Mini MX3	
nartphone			Model	Name	Mini MX3	
a *C						3
.8℃			Relative Humidity		59.8%	
0hPa			Test Voltage		DC 11.1V by battery	
ode 1			Antenn	na Polarity	Vertical	
Reading	Factor	Emission		Limits	Margin	1
					U	Value Type
. ,	()	` ·			()	peak
						AVG
.32				74		peak
.11	2.21			54	-19.68	AVG
3	μV) 24 58 32	μV) (dB) 24 0.08 58 0.08 32 2.21	µV) (dB) (dBµV) 24 0.08 46.33 58 0.08 37.66 32 2.21 43.55	μV) (dB) (dBμV/m) 24 0.08 46.32 58 0.08 37.66 32 2.21 43.53	μV) (dB) (dBμV/m) (dBμV/m) 24 0.08 46.32 74 58 0.08 37.66 54 32 2.21 43.53 74	μV) (dB) (dBμV/m) (dBμV/m) (dB) 24 0.08 46.32 74 -27.68 58 0.08 37.66 54 -16.34 32 2.21 43.53 74 -30.47

Radiated Emissions Test Results for Above 1GHz

RESULT: Pass



EUT Name	S	Smartphon	e Stabilizer		Mode	el Name		Mini M	K 3
Temperature	e 23.8°C Relative Humidity		23.8°C Re			ity	59.8%		
Pressure	9	960hPa Test Voltage			DC 11.1	DC 11.1V by battery			
Test Mode	N	/lode 2			Ante	nna Polarit	y	Horizor	ntal
Frequency	Mete	r Reading	Factor	Emission	Level	Limits		Margin	
(MHz)	(dBµV)	(dB)	(dBµV/r	m)	(dBµV/m)		(dB)	Value Type
4882.000		45.99	0.14	46.13	3	74		-27.87	peak
4882.000		38.74	0.14	38.88	3	54		-15.12	AVG
7323.000		41.65	2.36	44.01		74		-29.99	peak
7323.000	;	34.26	2.36	36.62	2	54		-17.38	AVG
Remark:									
Factor = Ante	<u>enna Fac</u>	<u>ctor + Cab</u>	<u>le Loss – Pre</u>	e-amplifier.					
EUT Name	S	Smartphon	e Stabilizer		Mode	el Name		Mini MX	K 3
Temperature	2	3.8 ℃			Relat	tive Humid	ity	59.8%	
Pressure	9	60hPa			Test	Voltage		DC 11.1	1V by battery
Test Mode	N	/lode 2			Ante	nna Polarit	y	Vertical	
	Meter Re	eading	Factor	Emission Lev	المر	Limits	Ma	irgin	
Frequency			(dB)	(dBµV/m)		(dBµV/m)		dB)	Value Type
Frequency (MHz)		JV) I	TUD1			((~	
(MHz)	(dBj					74	-2	859 L	peak
(MHz) 4880.000	(dB) 45.2	27	0.14	45.41		74 54		8.59 6.73	peak AVG
(MHz) 4880.000 4880.000	(dB) 45.2 37.1	27 13	0.14	45.41 37.27		54	-1	6.73	AVG
(MHz) 4880.000 4880.000 7320.000	(dB) 45.2 37. 40.2	27 13 26	0.14 0.14 2.36	45.41 37.27 42.62			-1 -3	6.73 1.38	
(MHz) 4880.000 4880.000	(dB) 45.2 37.1	27 13 26	0.14	45.41 37.27		54 74	-1 -3	6.73	AVG peak
(MHz) 4880.000 4880.000 7320.000	(dB) 45.2 37. 40.2	27 13 26	0.14 0.14 2.36	45.41 37.27 42.62		54 74	-1 -3	6.73 1.38	AVG peak

Radiated Emissions Test Results for Above 1GHz

RESULT: Pass



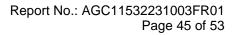
EUT Name	Smartphone	Smartphone Stabilizer 23.8°C 960hPa		del Name	Mini MX3			
Temperature	23.8 ℃			23.8°C Relative Humidity		ative Humidity	59.8%	
Pressure	960hPa			t Voltage	DC 11.1V	/ by battery		
Test Mode	Mode 3		Ant	enna Polarity	Horizonta	al		
Frequency	Meter Reading	Factor	Emission Lev	el Limits	Margin			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type		
4960.000	46.39	0.22	46.61	74	-27.39	peak		
4960.000	38.44	0.22	38.66	54	-15.34	AVG		
7440.000	41.62	2.64	44.26	74	-29.74	peak		
7440.000	32.83	2.64	35.47	54	-18.53	AVG		
Demerly								
Remark:								
Easter - Anton	nna Eantar i Cah	la Loca Dra	omplifior					
Factor = Anter	nna Factor + Cab	le Loss – Pre-	amplifier.					
Factor = Anter	nna Factor + Cab			del Name	Mini MX3			
-			Mo	del Name ative Humidity	Mini MX3 59.8%			
EUT Name	Smartphone		Mo Rel		59.8%	/ by battery		
EUT Name Temperature	Smartphone 23.8℃		Mo Rel Tes	ative Humidity	59.8%			
EUT Name Temperature Pressure Test Mode	Smartphone 23.8°C 960hPa Mode 3	e Stabilizer	Moo Rel Tes Ant	ative Humidity t Voltage enna Polarity	59.8% DC 11.1V Vertical			
EUT Name Temperature Pressure Test Mode	Smartphone 23.8°C 960hPa Mode 3 Meter Reading	e Stabilizer	Mo Rel Tes Ant Emission Lev	ative Humidity t Voltage enna Polarity rel Limits	59.8% DC 11.1V Vertical Margin			
EUT Name Temperature Pressure Test Mode	Smartphone 23.8℃ 960hPa Mode 3 Meter Reading (dBµV)	e Stabilizer Factor (dB)	Mo Rel Tes Ant Emission Lev (dBµV/m)	ative Humidity t Voltage eenna Polarity rel Limits (dBµV/m)	59.8% DC 11.1V Vertical Margin (dB)	' by battery Value Type		
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4960.000	Smartphone 23.8 °C 960hPa Mode 3 Meter Reading (dBµV) 46.19	e Stabilizer Factor (dB) 0.22	Mode Rel Tes Ant Emission Lev (dBµV/m) 46.41	ative Humidity t Voltage eenna Polarity el Limits (dBµV/m) 74	59.8% DC 11.1V Vertical Margin (dB) -27.59	V by battery Value Type peak		
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4960.000 4960.000	Smartphone 23.8 °C 960hPa Mode 3 Meter Reading (dBµV) 46.19 38.54	Factor (dB) 0.22 0.22	Mode Rel Tes Ant Emission Lev (dBµV/m) 46.41 38.76	ative Humidity t Voltage eenna Polarity el Limits (dBµV/m) 74 54	59.8% DC 11.1V Vertical Margin (dB) -27.59 -15.24	/ by battery Value Type peak AVG		
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4960.000 4960.000 7440.000	Smartphone 23.8 °C 960hPa Mode 3 Meter Reading (dBµV) 46.19 38.54 40.47	E Stabilizer Factor (dB) 0.22 0.22 2.64	Mode Rel Tes Ant Emission Lev (dBμV/m) 46.41 38.76 43.11	ative Humidity t Voltage eenna Polarity rel Limits (dBµV/m) 74 54 74	59.8% DC 11.1V Vertical Margin (dB) -27.59 -15.24 -30.89	Value Type Peak AVG peak		
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4960.000 4960.000	Smartphone 23.8 °C 960hPa Mode 3 Meter Reading (dBµV) 46.19 38.54	Factor (dB) 0.22 0.22	Mode Rel Tes Ant Emission Lev (dBµV/m) 46.41 38.76	ative Humidity t Voltage eenna Polarity el Limits (dBµV/m) 74 54	59.8% DC 11.1V Vertical Margin (dB) -27.59 -15.24	/ by battery Value Type peak AVG		
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4960.000 4960.000 7440.000	Smartphone 23.8 °C 960hPa Mode 3 Meter Reading (dBµV) 46.19 38.54 40.47	E Stabilizer Factor (dB) 0.22 0.22 2.64	Mode Rel Tes Ant Emission Lev (dBμV/m) 46.41 38.76 43.11	ative Humidity t Voltage eenna Polarity rel Limits (dBµV/m) 74 54 74	59.8% DC 11.1V Vertical Margin (dB) -27.59 -15.24 -30.89	Value Type Peak AVG peak		
EUT Name Temperature Pressure Test Mode Frequency (MHz) 4960.000 4960.000 7440.000	Smartphone 23.8 °C 960hPa Mode 3 Meter Reading (dBµV) 46.19 38.54 40.47	E Stabilizer Factor (dB) 0.22 0.22 2.64	Mode Rel Tes Ant Emission Lev (dBμV/m) 46.41 38.76 43.11	ative Humidity t Voltage eenna Polarity rel Limits (dBµV/m) 74 54 74	59.8% DC 11.1V Vertical Margin (dB) -27.59 -15.24 -30.89	Value Type Peak AVG peak		

Radiated Emissions Test Results for Above 1GHz

RESULT: Pass

Note:

- 1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.





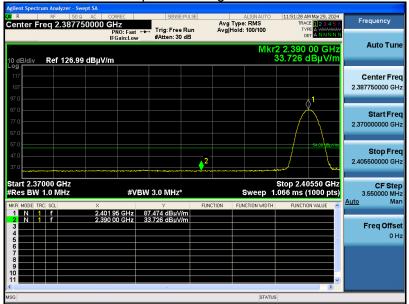
EUT Name	Smartphone Stabilizer	Model Name	Mini MX3
Temperature	23.8 ℃	Relative Humidity	59.8%
Pressure	960hPa	Test Voltage	DC 11.1V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Band Edge Emission Test Results for Restricted Bands

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



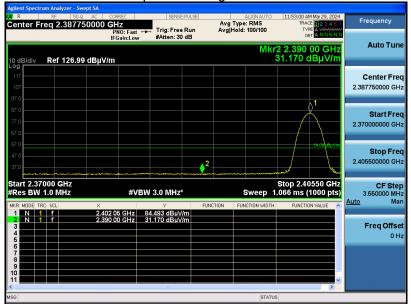
EUT Name	Smartphone Stabilizer	Model Name	Mini MX3
Temperature	23.8 ℃	Relative Humidity	59.8%
Pressure	960hPa	Test Voltage	DC 11.1V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Band Edge Emission Test Results for Restricted Bands

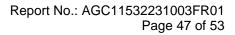
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

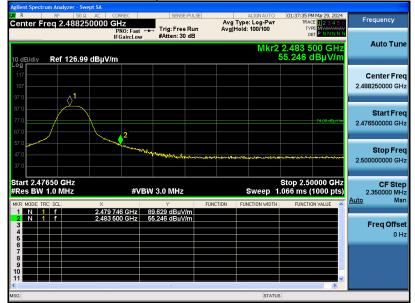




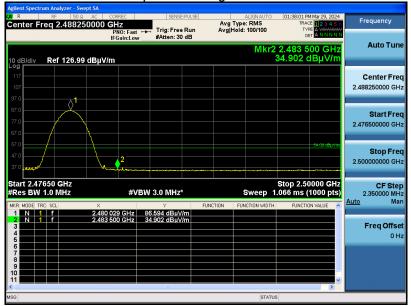
Band Edge Emission Test Results for Restricted Bands	
--	--

EUT Name	Smartphone Stabilizer	Model Name	Mini MX3
Temperature	23.8℃	Relative Humidity	59.8%
Pressure	960hPa	Test Voltage	DC 11.1V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

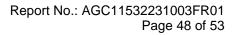
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Smartphone Stabilizer	Model Name	Mini MX3
Temperature	23.8 ℃	Relative Humidity	59.8%
Pressure	960hPa	Test Voltage	DC 11.1V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Band Edge Emission Test Results for Restricted Bands

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



12. AC Power Line Conducted Emission Test

12.1 Measurement Limit

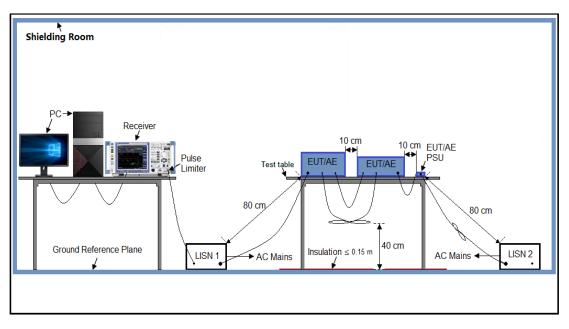
Framman	Maximum RF	Line Voltage
Frequency	Q.P. (dBµV)	Average (dBµV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 Measurement Setup (Block Diagram of Configuration)





12.3 Preliminary Procedure of Line Conducted Emission Test

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

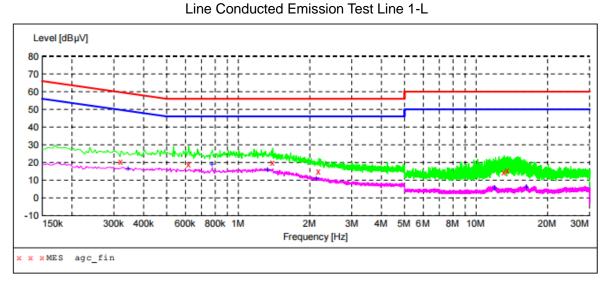
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



12.5 Measurement Results



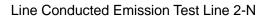
MEASUREMENT RESULT: "agc fin"

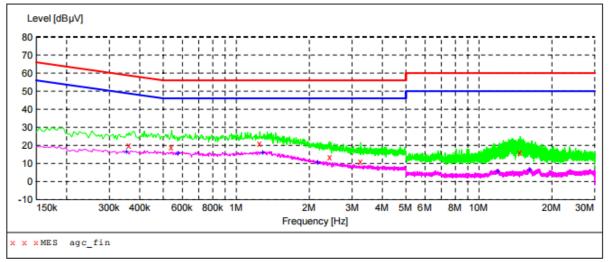
2024/3/28 11:	:35					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBµV	dB	dBµV	dB		
0.322000	20.50	6.1	60	39.2	QP	L1
0.618000	19.20	6.2	56	36.8	QP	L1
1.398000	19.80	6.2	56	36.2	QP	L1
2.182000	14.90	6.3	56	41.1	QP	L1
13.142000	14.30	6.8	60	45.7	QP	L1
13.566000	15.30	6.8	60	44.7	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2024/3/28 11	:35					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBµV	dB	dBµV	dB		
0.346000	16.40	6.1	49	32.7	AV	L1
0.778000	18.80	6.2	46	27.2	AV	L1
1.330000	15.80	6.2	46	30.2	AV	L1
2.126000	10.80	6.2	46	35.2	AV	L1
11.990000	5.60	6.8	50	44.4	AV	L1
16.282000	5.90	6.9	50	44.1	AV	L1







MEASUREMENT RESULT: "agc fin"

2024/3/28	11:32					
Frequency	y Level	Transd	Limit	Margin	Detector	Line
MH	z dBµV	dB	dBµV	dB		
0.36200	20.10	6.1	59	38.6	QP	N
0.54200	0 19.20	6.2	56	36.8	QP	N
1.25000	0 21.10	6.2	56	34.9	QP	N
2.42600	0 13.70	6.3	56	42.3	QP	N
3.26200	0 10.90	6.3	56	45.1	QP	N
14.79800	16.20	6.8	60	43.8	QP	N

MEASUREMENT RESULT: "agc fin2"

2024/3/28 11:	32					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBµV	dB	dBµV	dB		
0.354000	16.30	6.1	49	32.6	AV	N
0.578000	15.60	6.2	46	30.4	AV	N
1.290000	15.80	6.2	46	30.2	AV	N
2.162000	10.70	6.2	46	35.3	AV	N
11.982000	5.50	6.8	50	44.5	AV	N
16.166000	6.30	6.9	50	43.7	AV	N

RESULT: PASS

All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.



Report No.: AGC11532231003FR01 Page 53 of 53

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC11532231003AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC11532231003AP03

-----End of Report-----



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.