

# **FCC Test Report**

# Report No.: AGC01110200818FE02

FCC ID	8	2AOKB-A3125
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Speaker
BRAND NAME		Soundcore
MODEL NAME	÷	A3125
APPLICANT		Anker Innovations Limited
DATE OF ISSUE	© •	Sep. 07, 2020
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd



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#### **REPORT REVISE RECORD**

<b>Report Version</b>	Revise Time	Issued Date	Valid Version	Notes
V1.0		Sep. 07, 2020	Valid	Initial Release

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#### **1. VERIFICATION OF COMPLIANCE**

Applicant	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Manufacturer	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Factory	Anam Electronics Vietnam CO., Ltd	
Address	Dong Van IV industrial zone, Dai Cuong commune, Kim Bang district, Ha Nam province, Vietnam	
Product Designation	Wireless Speaker	
Brand Name	Soundcore	
Test Model	A3125	
Date of test	Aug. 24, 2020 to Sep. 04, 2020	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BLE/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

John Zerry

John Zeng (Project Engineer)

Max Zhan

Sep. 04, 2020

**Reviewed By** 

Max Zhang (Reviewer)

Sep. 07, 2020

Approved By

oWA

Forrest Lei (Authorized Officer)

Sep. 07, 2020

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# 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Wireless Speaker". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

2.402 GHz to 2.480GHz
6.444dBm (Max)
V5.0
BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ☑GFSK 1Mbps □GFSK 2Mbps
40 Channel
FPC Antenna (Comply with requirements of the FCC part 15.203)
2.62dBi
V1.0
V0.0.4
DC 7.4V by battery
function, but NFC tag is passive.

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
		2404 MHz
2400~2483.5MHz		
	38	2478 MHz
	39	2480 MHz

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

This submittal(s) (test report) is intended for FCC ID: 2AOKB-A3125 filing to comply with the FCC Part 15.247 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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## **3. 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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted,  $Uc = \pm 2.7 \text{ dB}$
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$

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## 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

#### 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.

#### Software Setting

SOLUTION ATS283X - COM COM4 -	115200 👻	BQB Mode
RF Channel 39 🗸	Hopping Mode 📕 No	rmal_F 🔻 fixed 💌
Packet Type BLE_1M 🗸		Type PRBS9 🗸
TX Gain Index 2		ndex 0 🗸
Access Code 0x 88888888		Mode
Stop Single Tone	Packet TX Packet RX	Hopping TX
185 年(ContinuelX期は、有級217、4秒 1开始ContinuelX期頃(Chan: 39 Packet: 1 1第年ContinuelX期頃(Chan: 39 AGC: 0 Pacl 1第年なた4XX期頃、(Chan: 39 AGC: 0 Pacl 1第年なた4XX期頃、持续251、1秒 1开始ContinuelX期頃(Chan: 39 Packet: 1 1結束ContinuelX期頃、持续62、2秒 1开始ContinuelX期頃、(Chan: 39 Packet: 1 1結束ContinuelX期頃、(Chan: 39 Packet: 1 1新定ContinuelX期頃、(Chan: 39 Packet: 1 日新公	<pre>ket:BLE_1M ) DH5 Payload:PRBS9 TxGain:3). DH5 Payload:PRBS9 TxGain:3).</pre>	

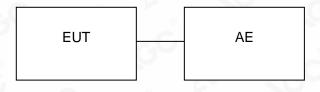
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# **5. SYSTEM TEST CONFIGURATION**

#### 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

#### 5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Speaker	A3125	2AOKB-A3125	EUT
2	Adapter	TY0500100E1MN	N/A	AE
3	Charger line	N/A	0.6m unshielded	AE
4	Control board	N/A	USB_TTL	AE

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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## 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

#### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2022
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBEC K	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Oct. 25, 2019	Oct. 26, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBEC K	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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# 7. PEAK OUTPUT POWER

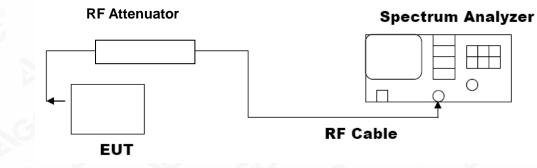
#### 7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

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.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



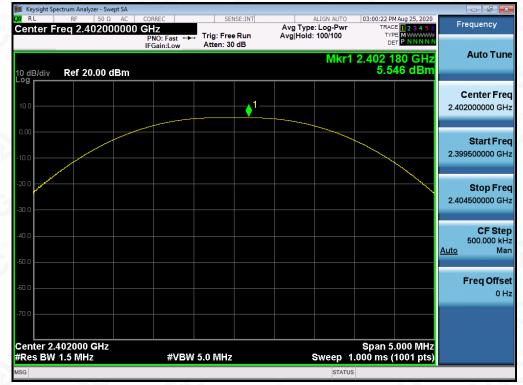
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#### 7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION							
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail							
2.402	5.546	30	Pass				
2.440	5.867	30	Pass				
2.480	6.444	30	Pass				

CH0



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**CH19** 

**CH39** 

Keysight Spectrum Analyzer - Swept SA		L octor turk			
Center Freq 2.4800000	00 GHz	SENSE:INT	ALIGN AUTO	03:07:22 PM Aug 25, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW	Frequency
	PNO: Fast ↔ IFGain:Low	<ul> <li>Trig: Free Run Atten: 30 dB</li> </ul>	Avg Hold: 100/100	DET	
10 dB/div Ref 20.00 dBn	n		Mkr1	2.480 180 GHz 6.444 dBm	Auto Tune
10.0		1_			Center Free 2.48000000 GH;
0.00					Start Free
-10.0					2.477500000 GH
and another the second					
-20.0					Stop Free 2.482500000 GH
-30.0					2.482500000 GH
-40.0					CF Step
40.0					500.000 kH Auto Mar
-50.0					
-60.0					Freq Offse
					0 H:
-70.0					
Center 2.480000 GHz #Res BW 1.5 MHz	#VBW	/ 5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	
MSG			STATUS	8	

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#### 8.6 DB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\ge$ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

#### 8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT						
Annliachta Limita	Applicable Limits					
Applicable Limits	Test Data	(kHz)	Criteria			
	Low Channel	700.7	PASS			
>500KHZ	Middle Channel	704.6	PASS			
6	High Channel	700.1	PASS			

#### 03:00:09 PM Aug 25, 2020 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Ho Frequency 402000000 GHz Center Avg|Hold:>100/100 #Atten: 30 dB Radio Device: BTS #IFGain:Low Ref 20.00 dBm Center Freq 2.402000000 GHz Span 3 MHz Center 2.402 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms 300.000 k Auto Mar **Total Power** 12.0 dBm Occupied Bandwidth 1.0313 MHz Freq Offset 0 H; Transmit Freq Error 23 Hz **OBW Power** 99.00 % x dB Bandwidth 700.7 kHz -6.00 dB x dB

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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#### 9. CONDUCTED SPURIOUS EMISSION

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Ampliantia	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS				

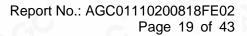
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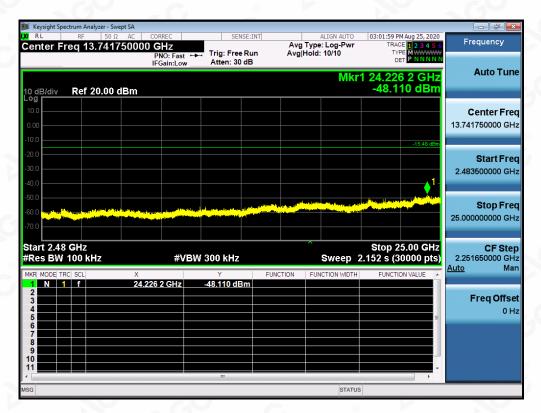


#### TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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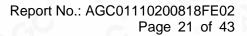
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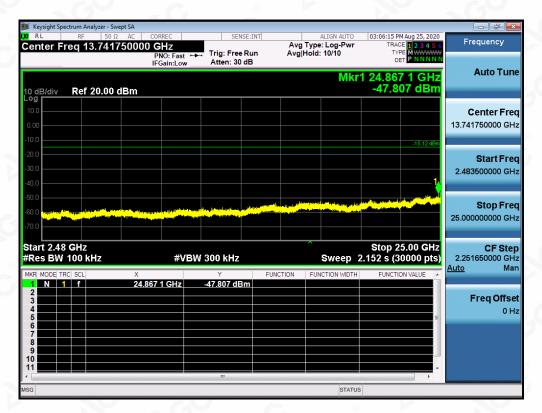


	GFSK MO			(8)	
Keysight Spectrum Analyzer - S RL RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO	03:05:40 PM Aug 25, 2020	
enter Freq 2.4400	000000 GHz PNO: Wide IFGain:Low	→ Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET PNNNN	Frequency
			Mkr1 2.	439 762 1 GHz 4.880 dBm	Auto Tun
0 dB/div Ref 20.00	J dBm	<b>1</b>		4.000 abiii	
10.0			<u> </u>		Center Fre
0.00					2.440000000 GH
10.0					
20.0					Start Fre
40.0					2.438500000 GH
50.0 Marrier					
60.0					Stop Free
70.0					2.441500000 GH
Center 2.440000 GH Res BW 100 kHz		W 300 kHz	-	Span 3.000 MHz 00 ms (30000 pts)	CF Step 300.000 kH Auto Mar
IKR MODE TRC SCL	× 2.439 762 1 GHz	Y 4.880 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 3					Freq Offse
4 5					0 H:
6					
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11					
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sg		m	STATUS	4	
r SG I Keysight Spectrum Analyzer - S				l	
SG Keysight Spectrum Analyzer - S RL RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:05:49 PM Aug 25, 2020 TRACE <b>1 2 3 4 5 6</b>	Frequency
SG Keysight Spectrum Analyzer - S RL RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO	03:05:49 PM Aug 25, 2020	
SG ( Keysight Spectrum Analyzer - S RL RF 50	Ω AC CORREC 000000 GHz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE M DET P NNNNN 1 2.248 00 GHz	
C Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2150 O dB/div Ref 20.00	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PM Aug 25, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN	Frequency
Keysight Spectrum Analyzer - So RL RF 50 Center Freq 1.2150 O dB/div Ref 20.00 O g	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE M DET P NNNNN 1 2.248 00 GHz	Frequency Auto Tune
C dB/div Ref 20.00 C dB/div	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE M DET P N N N N N 1 2.248 00 GHz	Frequency
C dB/div	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PMAug 25, 2020 TRACE 12 3:45 6 TYPE WWWWW DET PNNNNN 1 2.248 00 GHz -53.899 dBm	Frequency Auto Tune Center Free
R Keysight Spectrum Analyzer - S R R RF 50 Center Freq 1.215	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE M DET P N N N N N 1 2.248 00 GHz	Frequency Auto Tune Center Free 1.215000000 GH
SG         Image: Sectrum Analyzer - S           RL         RF         50           Center Freq 1.215(         9           0 dB/div         Ref 20.00           9         10.0           10.0         10.0	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PMAug 25, 2020 TRACE 12 3:45 6 TYPE WWWWW DET PNNNNN 1 2.248 00 GHz -53.899 dBm	Frequency Auto Tune Center Free 1.21500000 GH3 Start Free
C dB/div Ref 20.00 0 dB/div Ref 20.00 0 00 0 00 00	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PMAug 25, 2020 TRACE 12 3:45 6 TYPE WWWWW DET PNNNNN 1 2.248 00 GHz -53.899 dBm	Frequency Auto Tune Center Free
C dB/div Ref 20.00 C dB/	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PMAug 25, 2020 TRACE 12 3:45 6 TYPE WWWWW DET PNNNNN 1 2.248 00 GHz -53.899 dBm	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH:
C dB/div Ref 20.00 C dB/	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PMAug 25, 2020 TRACE 12 3:45 6 TYPE WWWWW DET PNNNNN 1 2.248 00 GHz -53.899 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH
C dB/div Ref 20.00 0 dB/div Ref 20.00 0 00 0 00 00	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:05:49 PMAug 25, 2020 TRACE 12 3:45 6 TYPE WWWWW DET PNNNNN 1 2.248 00 GHz -53.899 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH
G         Reysight Spectrum Analyzer - 3           RL         RF         50           Center Freq 1.215(         00           0.0         B/div         Ref 20.000           10.0         00         00	AC CORREC CORREC CORREC CORREC PNO: Fast IFGain:Low CORREC	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr'	03:05:49 PM Aug 25, 2020 TRACE 1, 2: 3 4:5 6 TYPE M.WWWWWW OET P.WWWWW 1 2: 2448 00 GHz -53:899 dBm -15:12 dbm -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -1 -15:12 dbm -1 -15:12 dbm -1 -15:12 dbm -1 -15:12 dbm -1 -15:12 dbm -1 -15:12 dbm -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH
G         Reysight Spectrum Analyzer - 3           RL         RF         50           Center Freq 1.2150         00         00           0 0 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00           10 0         00         00	Ω AC CORREC D00000 CHZ PNO: Fast - IFGain:Low D dBm	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0: 10 23 4, 5 6 OCT PHILLINK 1, 2, 248, 00 GHz -53, 899 dBm -15:12 dBm -15:15:12 dBm -15:12 dB	Frequency           Auto Tune           Center Freq           1.21500000 GH:           Start Freq           30.00000 MH:           Stop Freq           2.40000000 GH:           CF Step           237.00000 MH:
G         Reysight Spectrum Analyzer - S           RL         RF         50           Center Freq 1.2150         Senter Freq 1.2150           0 dB/div         Ref 20.00           10.0         Senter Freq 1.2150	AC CORREC      ODOOOO CH2      PNO: Fast      IFGain:Low      OdBm      OdBm      Addata      Addatata      Addata      Addatata      Addatatata      Addatatatatatatatatatatatatatatatatatata	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr'	03:05:49 PM Aug 25, 2020 TRACE 1, 23 45 6 TYPE MANNAN OCT PHANNAN 1, 2, 2448 00 GHz -53.899 dBm -15:12 dbm -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -11 -15:12 dbm -15:12 dbm -11 -15:12 dbm -15:12 dbm -15:12 dbm -15:1	Frequency           Auto Tune           Center Freq           1.21500000 GH:           Start Freq           30.00000 MH:           Stop Freq           2.40000000 GH:           CF Step           237.00000 MH:
Content         Ref         S0           RL         RF         50           Center Freq 1.2150         50           0 dB/div         Ref 20.000           10 0         0           20 0         0           30 0         0           40         0	Ω AC CORREC D00000 CHZ PNO: Fast - IFGain:Low D dBm	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0=17 PM Aug 25, 2020 0=17 PM Aug 25, 2020 0=	Frequency           Auto Tune           Center Freq           1.21500000 GH           Start Freq           30.000000 MH           Stop Freq           2.400000000 GH           CF Step           237.000000 MH           Auto         Mar
G         Keysight Spectrum Analyzer - 5           RL         RF         50           Center Freq 1.215(         60	AC CORREC      ODOOOO CH2      PNO: Fast      IFGain:Low      OdBm      OdBm      Addata      Addatata      Addata      Addatata      Addatatata      Addatatatatatatatatatatatatatatatatatata	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0, 1990 (1990) 0 ET 0, 1990 (1990) 12, 2448, 00 GHz -53, 8999 dBm -15, 12 dBm -15, 12 dBm -11 -15, 12 dBm -15, 12	Frequency Auto Tune Center Free 1.21500000 GH Start Free 30.000000 MH Stop Free 2.40000000 GH CF Step 237.00000 MH Auto Mar
G         SG           RL         RF         50           Center Freq 1.2150         Senter Freq 1.2150           0 dB/div         Ref 20.000	AC CORREC      ODOOOO CH2      PNO: Fast      IFGain:Low      OdBm      OdBm      Addata      Addatata      Addata      Addatata      Addatatata      Addatatatatatatatatatatatatatatatatatata	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0=17 PM Aug 25, 2020 0=17 PM Aug 25, 2020 0=	Frequency Auto Tune Center Free 1.21500000 GH Start Free 30.000000 MH Stop Free 2.40000000 GH CF Step 237.00000 MH Auto Mar
Comparison         Compari	AC CORREC      ODOOOO CH2      PNO: Fast      IFGain:Low      OdBm      OdBm      Addata      Addatata      Addata      Addatata      Addatatata      Addatatatatatatatatatatatatatatatatatata	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0, 1990 (1990) 0 ET 0, 1990 (1990) 12, 2448, 00 GHz -53, 8999 dBm -15, 12 dBm -15, 12 dBm -11 -15, 12 dBm -15, 12	Frequency           Auto Tune           Center Freq           1.21500000 GH3           Start Freq           30.00000 MH3           Stop Freq           2.40000000 GH3           CF Step           237.00000 MH3
Content         Ref         S0           RL         RF         50           Center Freq 1.2150         50           0 dB/div         Ref 20.000           10.0         0           0.00         0	AC CORREC      ODOOOO CH2      PNO: Fast      IFGain:Low      OdBm      OdBm      Addata      Addatata      Addata      Addatata      Addatatata      Addatatatatatatatatatatatatatatatatatata	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0, 1990 (1990) 0 ET 0, 1990 (1990) 12, 2448, 00 GHz -53, 8999 dBm -15, 12 dBm -15, 12 dBm -11 -15, 12 dBm -15, 12	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse
G         Reysight Spectrum Analyzer - 5           RL         RF         50           Center Freq 1.215(         Ref 20.00           O         B/div         Ref 20.00           O         B/div         Ref 20.00           O         B/div         Ref 20.00           O         B/div         Ref 20.00           O         D         D           O         D         D           O         D         D           O         D         D           O         D         D           O         D         D         D           O         D         D         D         D           O         D         D         D         D           O         D         D         D         D           O         D         D         D         D           O         D         D         D         D           Start 30 MHz         E         D         D         D           Z         D         D         D         D         D           Z         D         D <thd< th="">         D         D         <thd< th=""></thd<></thd<>	AC CORREC      ODOOOO CH2      PNO: Fast      IFGain:Low      OdBm      OdBm      Addata      Addatata      Addata      Addatata      Addatatata      Addatatatatatatatatatatatatatatatatatata	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:05:49 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 0, 1990 (1990) 0 ET 0, 1990 (1990) 12, 2448, 00 GHz -53, 8999 dBm -15, 12 dBm -15, 12 dBm -11 -15, 12 dBm -15, 12	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse

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N K TING A A					
Keysight Spectrum Analyzer -	Swept SA ) Ω AC CORREC	SENSE:INT	ALIGN AUTO	03:08:26 PM Aug 25, 2020	
Center Freq 2.480			Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN	Frequency
Dof 20 0			Mkr1 2	479 763 3 GHz 5.453 dBm	Auto Tun
OdB/div Ref 20.00		<b>1</b>			
0.0					Center Fre
.00					2.480000000 GH
0.0					
20.0			- I man		Start Free
10.0					2.478500000 GH
i0.0				and a second sec	
0.0					Stop Free
 					2.481500000 GH
enter 2.480000 GH Res BW 100 kHz		N 300 kHz	Sweep 2.0	Span 3.000 MHz 100 ms (30000 pts)	CF Step 300.000 kH Auto Mar
KR MODE TRC SCL	× 2.479 763 3 GHz	Y F 5.453 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
2	2.413 700 0 0112	0.400 dBm			Freq Offse
4					0 H:
5				E	
8					
9 0 0					
1					
G			STATUS		
· · · · · · · · · · · ·					
	Swept SA				
RL RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO	03:08:35 PM Aug 25, 2020	Frequency
RL RF 50	Ω AC CORREC 0000000 GHZ PNO: Fast ↔	Trig: Free Run	/		
RL RF 50 enter Freq 1.215	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	THE FURD	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE MWWWWW DET PINNINN 1 2.287 74 GHz	
RL RF 50 enter Freq 1.2150	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN	Frequency
enter Freq 1.215	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE MWWWWW DET PINNINN 1 2.287 74 GHz	Frequency
RL RF 50 enter Freq 1.2150 0 dB/div Ref 20.00	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE MWWWWW DET PINNINN 1 2.287 74 GHz	Frequency Auto Tune
RL         RF         SC           enter Freq 1.2150         0.0 <t< td=""><td>0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low</td><td>Trig: Free Run</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10</td><td>03:08:35 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE MWWWWW DET PINNINN 1 2.287 74 GHz</td><td>Frequency Auto Tune Center Free</td></t<>	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 2 3 4 5 6 TYPE MWWWWW DET PINNINN 1 2.287 74 GHz	Frequency Auto Tune Center Free
RL         RF         SC           enter Freq 1.2150         0.0 <t< td=""><td>0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low</td><td>Trig: Free Run</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10</td><td>03:08:35 PM Aug 25, 2020 TRACE 1 23 4 5 6 TYPE 1 24 5 6 TYPE 1 2000 OET PNNNNN 1 2.287 74 GHz -54.800 dBm</td><td>Frequency Auto Tune Center Free</td></t<>	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1 23 4 5 6 TYPE 1 24 5 6 TYPE 1 2000 OET PNNNNN 1 2.287 74 GHz -54.800 dBm	Frequency Auto Tune Center Free
RL         RF         SC           enter Freq 1.2150         0	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1 23 4 5 6 TYPE 1 24 5 6 TYPE 1 2000 OET PNNNNN 1 2.287 74 GHz -54.800 dBm	Frequency Auto Tune Center Free 1.215000000 GH
RL         RF         SC           enter Freq 1.215         0	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1 23 4 5 6 TYPE 1 24 5 6 TYPE 1 2000 OET PNNNNN 1 2.287 74 GHz -54.800 dBm	Frequency Auto Tune Center Free 1.21500000 GH2 Start Free
RL         RF         50           enter Freq 1.215         S0           o dB/div         Ref 20.00           og         S0           o 0         S0	0 0 AC CORREC 000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1 23 4 5 6 TYPE 1 24 5 6 TYPE 1 2000 OET PNNNNN 1 2.287 74 GHz -54.800 dBm	Frequency Auto Tune Center Free 1.215000000 GH3 Start Free 30.000000 MH3 Stop Free
RL         RF         50           enter Freq 1.215         S0           o dB/div         Ref 20.00           og         S0           o 0         S0	0 Ω AC CORREC 0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1 23 4 5 6 TYPE 1 24 5 6 TYPE 1 2000 OET PNNNNN 1 2.287 74 GHz -54.800 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free
RL         RG         SC           enter Freq 1.2150         SC         SC           0 dB/div         Ref 20.00         SC           90         SC         SC         SC           90         SC	0 0 AC CORREC 000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 23 4, 5 6 TYPE 1, 14	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH
RL         RG         SG           enter Freq 1.215         SG           0 dB/div         Ref 20.01           0 dD/div         Ref 20.01 <th< td=""><td>0 Q AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm</td><td>Trig: Free Run Atten: 30 dB</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</td><td>03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 23 4, 5 6 TYPE 1, 14, 14, 14, 14, 14, 14, 14, 14, 14,</td><td>Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH:</td></th<>	0 Q AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 23 4, 5 6 TYPE 1, 14, 14, 14, 14, 14, 14, 14, 14, 14,	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH:
RL         RS         SC           center Freq 1.215/         SC         SC           0 dB/div         Ref 20.00         SC           0 dD/div         Ref 20.00         SC	Ω AC CORREC     ODOOOO GHZ     PNO: Fsat →     IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 24 4, 5 6 OPT 1, 14 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tune Center Free 1.21500000 GH2 Start Free
RL         RE         SC           Senter Freq 1.215         Sc         Sc           O dB/div         Ref 20.01         Sc         Sc           O d B/div         Ref 20.01         Sc         Sc         Sc           O d B/div         Ref 20.01         Sc	0 Q AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 23 4, 5 6 TYPE 1, 14, 14, 14, 14, 14, 14, 14, 14, 14,	Frequency           Auto Tune           Center Freq           1.215000000 GH:           Start Freq           30.000000 MH:           Stop Freq           2.400000000 GH:           CF Step           237.000000 MH:
RL         RG         SG           center Freq 1.215         Senter Freq 1.215           0 dB/div         Ref 20.00           0 d         Senter Freq 1.215           0 dB/div         Ref 20.00           0 d         Senter Freq 1.215           0 dB/div         Ref 20.00           0 d         Senter Freq 1.215           1 d         1 d           1 d         1 d           2 d         Senter Freq 1.215	AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 24 4, 5 6 OPT 1, 14 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tune Center Free 1.21500000 GH Start Free 30.000000 MH Stop Free 2.40000000 GH CF Step 237.00000 MH Auto Mar
O dB/div         Ref 20.00           0 dD         Ref 20.00	AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TYPE 1, 24 4, 5 6 OPT 1, 14 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse
RL         RF         SC           Center Freq 1.215         Ref 20.00           O         Ref 20.00           Ref 20.00         Ref 20.00           Ref 20.00         Ref 20.00           Ref 20.00         Ref 20.00           Ref 20.00 <thref 20.00<="" th="">           Ref 20.00         Ref 20.00           Ref 20.00</thref>	AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TVPE 1, 23 4, 5 6 TVPE 1, 12 4, 5 6 DET P. N.N.N.N.N. 1, 2, 28, 7, 74, GHz -54, 800 dBm -14, 55 dBF -14, 5	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse
RL         RG         SG           Senter Freq 1.215         SG           Genter Freq 1.215         SG           O dB/div         Ref 20.01           O d         SG           O dB/div         Ref 20.01           O d         SG           O dB/div         Ref 20.01           O d         SG           O dD         SG           SG         SG	AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TVPE 1, 23 4, 5 6 TVPE 1, 12 4, 5 6 DET P. N.N.N.N.N. 1, 2, 28, 7, 74, GHz -54, 800 dBm -14, 55 dBF -14, 5	Frequency           Auto Tune           Center Freq           1.215000000 GH:           Start Freq           30.000000 MH:           Stop Freq           2.400000000 GH:           CF Step           237.000000 MH:
RL         RF         S0           enter Freq 1.215         S0           o dB/div         Ref 20.01           og         S0           o d0         S0           s0         S0           s0 <th< td=""><td>AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the</td><td>Trig: Free Run Atten: 30 dB</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</td><td>03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TVPE 1, 23 4, 5 6 TVPE 1, 12 4, 5 6 DET P. N.N.N.N.N. 1, 2, 28, 7, 74, GHz -54, 800 dBm -14, 55 dBF -14, 5</td><td>Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse</td></th<>	AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TVPE 1, 23 4, 5 6 TVPE 1, 12 4, 5 6 DET P. N.N.N.N.N. 1, 2, 28, 7, 74, GHz -54, 800 dBm -14, 55 dBF -14, 5	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse
RL         RG         SG           eenter Freq 1.215         SG           o dB/div         Ref 20.00           o dB/div         Ref 20.00 <t< td=""><td>AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the</td><td>Trig: Free Run Atten: 30 dB</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr</td><td>03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TVPE 1, 23 4, 5 6 TVPE 1, 12 4, 5 6 DET P. N.N.N.N.N. 1, 2, 28, 7, 74, GHz -54, 800 dBm -14, 55 dBF -14, 5</td><td>Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse</td></t<>	AC CORREC 000000 GHZ PNO: Fast IFGain:Low 0 dBm 0 dBm 4 Million of the set of the	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	03:08:35 PM Aug 25, 2020 TRACE 1, 23 4, 5 6 TVPE 1, 23 4, 5 6 TVPE 1, 12 4, 5 6 DET P. N.N.N.N.N. 1, 2, 28, 7, 74, GHz -54, 800 dBm -14, 55 dBF -14, 5	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse

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🊺 Keysight Sp											
Center F	RF reg 13	50 Ω		RREC	SEN	SE:INT	Avg Tvp	ALIGN AUTO e: Log-Pwr		MAug 25, 2020	Frequency
Genter I		.1300	F	NO: Fast ← Gain:Low	Trig: Free Atten: 30		Avg Hold		TYP		
10 dB/div Log	Ref 2	20.00 d	Bm					Mkr	1 24.874 -48.3	4 0 GHz 17 dBm	Auto Tune
										-14.55 dBm	Center Freq 13.750000000 GHz
-20.0 -30.0 -40.0										-14.35 dBM	Start Freq 2.50000000 GHz
-50.0 -60.0		n ale finis de la			e se de la sette						<b>Stop Freq</b> 25.00000000 GHz
Start 2.50 #Res BW	100 ki	lz	X	#VB	W 300 kHz Y	FUN	CTION FU	Sweep :	2.152 s (3	5.00 GHz 0000 pts)	<b>CF Step</b> 2.250000000 GHz <u>Auto</u> Man
1 N 2 3 4 5 6 7	1 f		24.874	0 GHz	-48.317 dE	3m				E	Freq Offset 0 Hz
8 9 10 11					Ш						
MSG								STATUS	6		

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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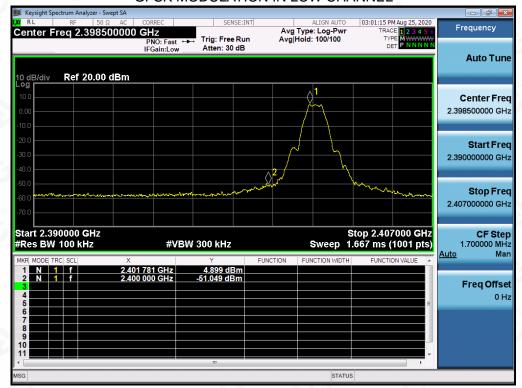
 Attestation of Global Compliance(Shenzhen)Co., Ltd

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

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

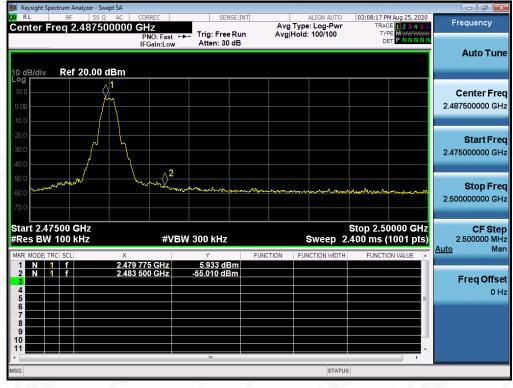
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#### TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

#### GFSK MODULATION IN HIGH CHANNEL



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## **10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY**

#### **10.1. MEASUREMENT PROCEDURE**

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

#### **10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)**

Refer to Section 7.2.

#### **10.3. MEASUREMENT EQUIPMENT USED**

Refer to Section 6.

#### **10.4. LIMITS AND MEASUREMENT RESULT**

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-9.838	8	Pass	
Middle Channel	-9.470	8	Pass	
High Channel	-8.811	8	Pass	

#### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

💓 Keysight Spectrum Analyzer - Swept SA			
RL         RF         50 Ω         AC           Center Freq         2.480000000         I	CORREC SENSE:INT	ALIGN AUTO 03:07:54 PM Aug 25, 2020 Avg Type: Log-Pwr TRACE 12 3 4 5 6	Frequency
10 dB/div Ref 20.00 dBm	PNO: Wide →→ IFGain:Low Atten: 30 dB	Avg Hold: 100/100 TYPE NNNNN DET NNNNN Mkr1 2.480 083 0 GHz -8.811 dBm	Auto Tune
			Center Freq 2.480000000 GHz
-10.0	Way Will and water	Margage growing white a second	<b>Start Freq</b> 2.479474912 GHz
-20.0		Manny Maring Manny Ma	<b>Stop Freq</b> 2.480525088 GHz
-40.0			CF Step 105.018 kHz <u>Auto</u> Man
-60.0			Freq Offset 0 Hz
Center 2.4800000 GHz #Res BW 3.0 KHz	#VBW 10 kHz	Span 1.050 MHz Sweep 110.7 ms (1001 pts)	
MSG		STATUS	

#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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#### **11. RADIATED EMISSION**

#### **11.1. MEASUREMENT PROCEDURE**

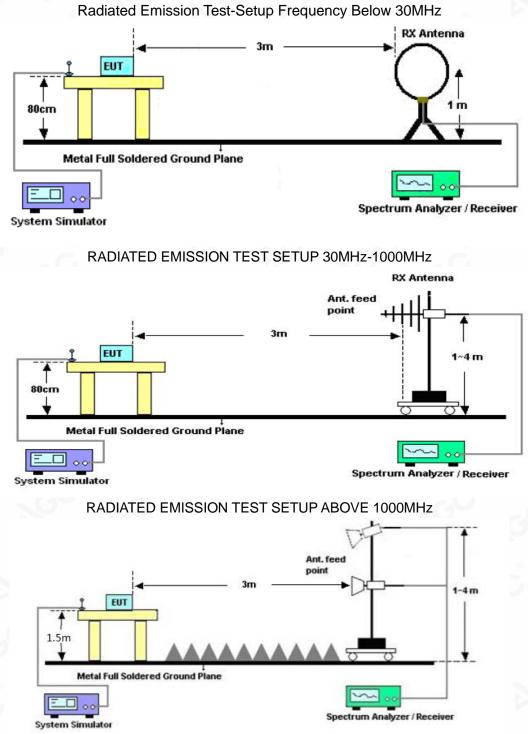
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the 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.

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#### 11.2. TEST SETUP



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#### **11.3. LIMITS AND MEASUREMENT RESULT**

15.209 Limit in the below table has 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.

#### 11.4. TEST 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.

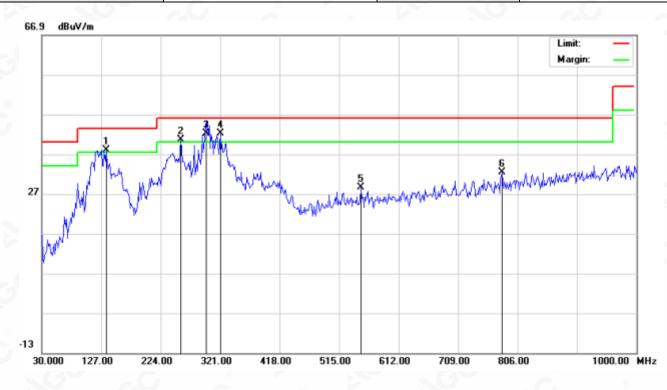
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#### **RADIATED EMISSION BELOW 1GHZ**

EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	!	135.0833	22.84	15.15	37.99	43.50	-5.51	peak
2	!	256.3333	22.31	18.37	40.68	46.00	-5.32	peak
3	!	298.3667	20.81	21.34	42.15	46.00	-3.85	peak
4	*	321.0000	20.81	21.37	42.18	46.00	-3.82	QP
5		550.5667	2.53	25.98	28.51	46.00	-17.49	peak
6		780.1332	2.45	29.96	32.41	46.00	-13.59	peak

#### **RESULT: PASS**

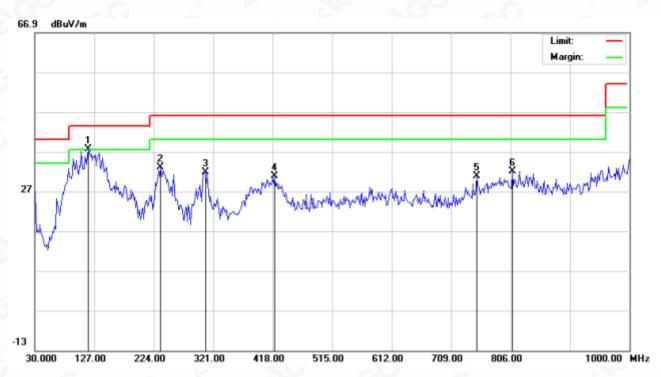
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EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	117.3000	19.96	17.71	37.67	43.50	-5.83	peak
2		235.3167	15.05	17.86	32.91	46.00	-13.09	peak
3		308.0667	12.15	19.75	31.90	46.00	-14.10	peak
4		421.2333	7.30	23.41	30.71	46.00	-15.29	peak
5		751.0333	2.94	27.83	30.77	46.00	-15.23	peak
6		809.2333	1.86	30.16	32.02	46.00	-13.98	peak

#### RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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#### **RADIATED EMISSION ABOVE 1GHZ**

EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	<sup>©</sup> Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.57	0.08	44.65	74	-29.35	peak
4804.000	35.49	0.08	35.57	54	-18.43	AVG
7206.000	39.84	2.21	42.05	74	-31.95	peak
7206.000	31.66	2.21	33.87	54	-20.13	AVG
500	- G	0		100	-C	0
emark:		G .				
actor = Anter	nna Factor + Cabl	e Loss – Pre-	-amplifier.			0

EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	43.89	0.08	43.97	74	-30.03	peak
4804.000	35.28	0.08	35.36	54	-18.64	AVG
7206.000	39.64	2.21	41.85	74	-32.15	opeak
7206.000	31.43	2.21	33.64	54	-20.36	AVG
			20			
emark:						

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EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	44.58	0.14	44.72	74	-29.28	peak
4880.000	36.41	0.14	36.55	54	-17.45	AVG
7320.000	40.52	2.36	42.88	74	-31.12	peak
7320.000	32.65	2.36	35.01	54	-18.99	AVG
(R)			9 20	9	6	
emark:		8				8
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- 6
			(C)			

EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

alue Type			Emission Level	Factor	Meter Reading	Frequency
6	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV)	(MHz)
peak	-28.04	74	45.96	0.14	45.82	4880.000
AVG	-16.38	54	37.62	0.14	37.48	4880.000
peak	-31.48	74	42.52	2.36 💿	40.16	7320.000
AVG	-17.85	54	36.15	2.36	0.000 33.79 2.	7320.000
						1
	0					emark:
		<u>c</u>			na Factor + Cable	emark:

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EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.74	0.22	46.96	74	-27.04	peak
4960.000	34.15	0.22	34.37	54	-19.63	AVG
7440.000	39.77	2.64	42.41	74	-31.59	peak
7440.000	30.48	2.64	33.12	54	-20.88	AVG
	0				8	
Remark:		8				8
actor = Anter	na Factor + Cable	Loss – Pre-	-amplifier.			- 6

EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.15	0.22	45.37	74	-28.63	peak
4960.000	33.46	0.22	33.68	54	-20.32	AVG
7440.000	37.28	2.64	39.92	74	-34.08	peak
7440.000	28.43	2.64	31.07	54	-22.93	AVG
8		200				
emark:						
actor = Anter	nna Factor + Cable	Loss – Pre-	-amplifier.			3
		8				(6)

# **RESULT: PASS**

#### Note:

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.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit. The "Factor" value can be calculated automatically by software of measurement system.

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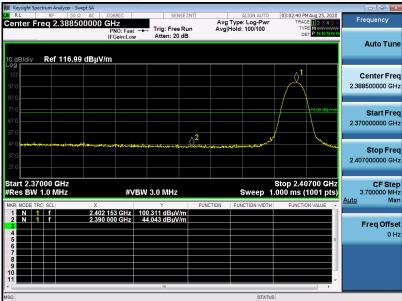


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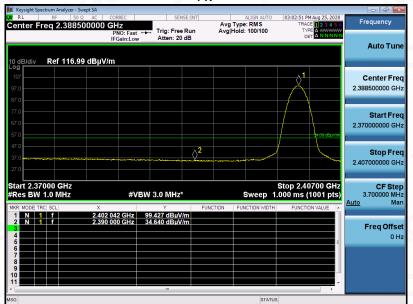
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS						
EUT	Wireless Speaker	Model Name	A3125			
Temperature	25° C	Relative Humidity	55.4%			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 1	Antenna	Horizontal			
	DI					

#### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



**RESULT: PASS** 

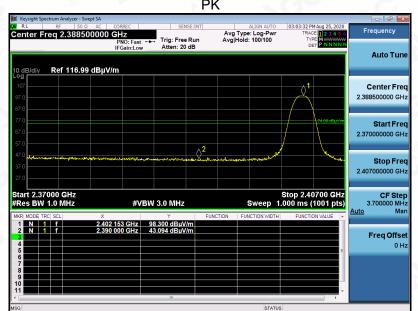
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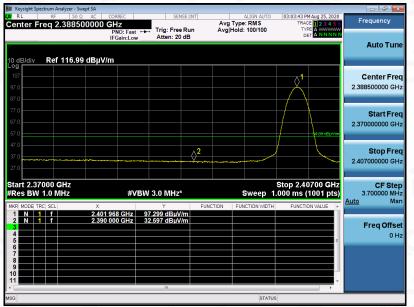


#### Report No.: AGC01110200818FE02 Page 36 of 43

EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
		DI	







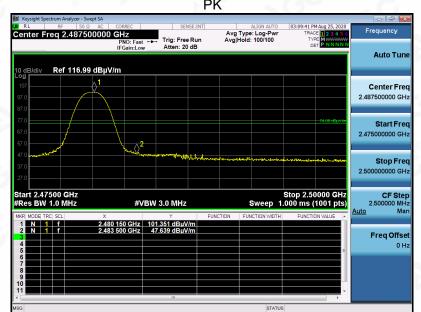
**RESULT: PASS** 

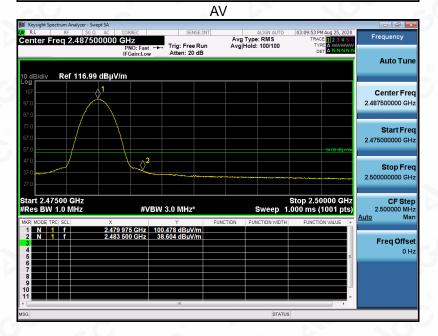
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EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
		DI	





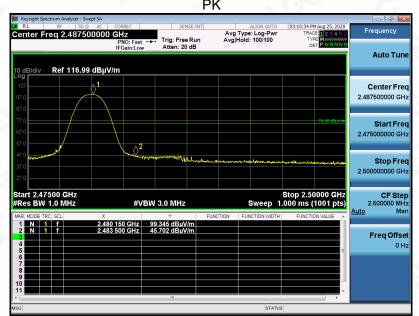
**RESULT: PASS** 

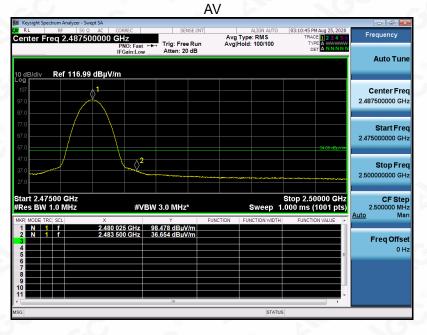
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EUT	Wireless Speaker	Model Name	A3125
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
		DI	





#### **RESULT: PASS**

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

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# **12. FCC LINE CONDUCTED EMISSION TEST**

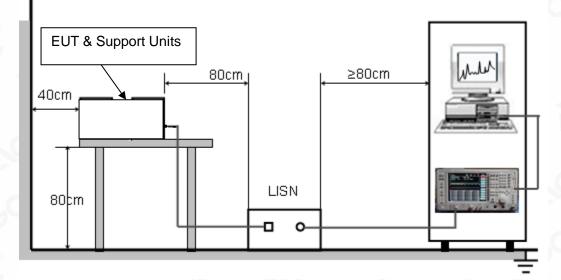
#### **12.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

Frequency	Maximum RF Line Voltage				
Frequency	Q.P.( dBuV)	Average( dBuV)			
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. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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#### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 3.3V power from control board 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.

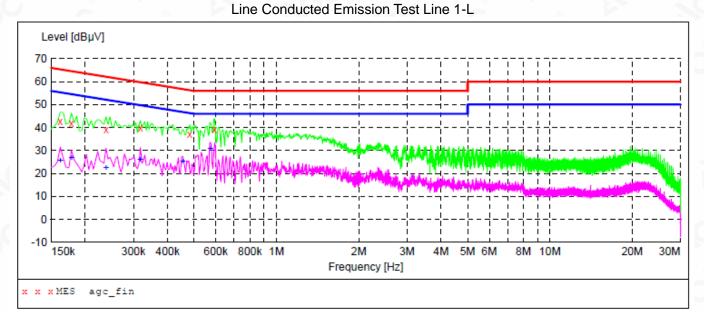
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

#### 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.

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#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

MEASUREMENT RESULT: "agc\_fin"

2020/8/26 13:58

2020/0/20 13:	J0					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.162000 0.178000 0.238000	42.70 41.80 39.30	9.3 9.3 9.3	65 65 62	22.7 22.8 22.9	QP	L1 L1 L1
0.318000 0.482000 0.594000	39.70 37.10 39.00	9.3 9.3 9.3	60 56 56	20.1 19.2 17.0	-	L1 L1 L1

#### MEASUREMENT RESULT: "agc fin2"

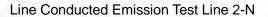
2020/8/26 13:	:58					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.162000	25.80	9.3	55	29.6	AV	L1
0.178000	26.90	9.3	55	27.7	AV	L1
0.238000	22.40	9.3	52	29.8	AV	ь1
0.318000	26.10	9.3	50	23.7	AV	ь1
0.454000	25.20	9.3	47	21.6	AV	ь1
0.574000	30.60	9.3	46	15.4	AV	L1

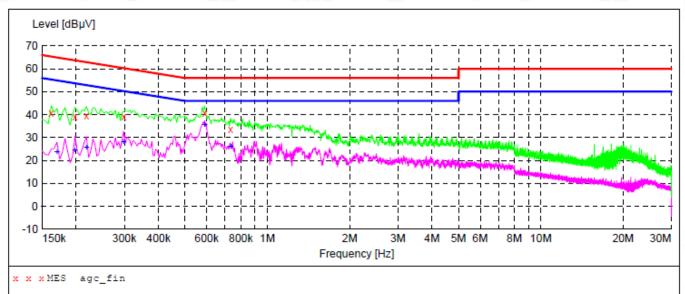
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#### MEASUREMENT RESULT: "agc\_fin"

2020/8/26 14:	01					
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line
0.162000	40.50	9.3	65	24.9	QP	Ν
0.198000	38.90	9.3	64	24.8	QP	N
0.218000	39.40	9.3	63	23.5	QP	N
0.298000	38.90	9.3	60	21.4	QP	N
0.590000	40.60	9.3	56	15.4	QP	N
0.734000	33.50	9.3	56	22.5	QP	N

#### MEASUREMENT RESULT: "agc fin2"

2020/8/26 14:01										
-	cy Level Hz dBµV		Limit dBµV	Margin dB	Detector	Line				
0.1700	00 23.5	9.3	55	31.5	AV	N				
0.1980	00 24.3	9.3	54	29.4	AV	N				
0.2180	00 25.7	9.3	53	27.2	AV	N				
0.2980	00 28.1	9.3	50	22.2	AV	N				
0.5900	00 35.7	9.3	46	10.3	AV	N				
0.7340	00 26.00	9.3	46	20.0	AV	Ν				

#### **RESULT: PASS**

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110200818AP01

# APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01110200818AP01

----END OF REPORT----

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4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. 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.

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8. 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.

9. 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.

10. 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.

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