

FCC Test Report

Report No.: AGC01110190870FE03

FCC ID	•	2A0KB-A3392
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Soundcore Mega, Soundcore Trance
BRAND NAME	÷	Soundcore
MODEL NAME	1	A3392, A3393
APPLICANT	e	Anker Innovations Limited
DATE OF ISSUE	•	Oct. 15, 2019
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 15, 2019	Valid	Initial Release



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 Add:
 2/F., Building 2,Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

 Tel:
 +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Service Hotline:400 089 2118



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1. VERIFICATION OF CONFORMITY

Anker Innovations Limited	
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Anker Innovations Limited	
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
TCL Technoly Electronics (Huizhou) Co., Ltd. The Second Factory	
Section 41, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, P.R. China.	
Soundcore Mega, Soundcore Trance	
Soundcore	
A3392, A3393	
All the same except for the model name, microphone and Guitar(A3392 has microphone and guitar ports, but A3393 has not)	
Sep. 16, 2019 to Sep. 27, 2019	
None	
Normal	
Pass	
AGCRT-US-BR/RF	

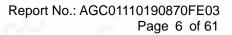
We hereby certify that:

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.

John Zen Prepared By John Zeng Sep. 27, 2019 **Project Engineer** Max Zhang **Reviewed By** Max Zhang Oct. 15, 2019 Reviewer Forrest Un Approved By Forrest Lei Oct. 15, 2019 Authorized Officer



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Soundcore Mega". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	6.448dBm(Max)	
Bluetooth Version	V5.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79 Channels	
Hardware Version	40-AK3392-MAC2G	
Software Version	A3392 V1236, A3393 V0937	
Antenna Designation	FPC Antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	4.02dBi	
Power Supply(by battery)	DC 7.4V by battery	
Power Supply(by adapter)	MODEL:DST451-150300W-K INPUT:100-240V~50/60Hz 1.2A MAX OUTPUT:15.0V3.0A	
Note: The Connect a USB stora	age device, Charge a USB device.	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
C	0	2402MHZ
	G 1	2403MHZ
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
\odot	40	2442 MHZ
SC 2		all a l
	77	2479 MHZ
0	78	2480 MHZ



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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ, In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the

connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values: 1. LAP/UAP of the master of the connection.

2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30).In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations)are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.



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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:2AOKB-A3392** filing to comply with the FCC PART 15.247 requirements.

2.7. 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.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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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 spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2\%$



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

Note: 1. Only the result of the worst case was recorded in the report, if no other cases. 2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting BlueTest3 × Test Commands ments PAUSE Close RADIO STATUS RADIO STATUS FULL LO Freq. (MHz) 2480 Help Power (Ext, Int) 255 50 TXSTART TXDATA1 Execute TXDATA2 TXDATA3 TXDATA4 Cold Reset Warm Reset Test Results Save to file Browse for f Display : 🕞 Standard C BER C:\Users\DELL\AppData\Local\QTI Ltd\BlueTest3\testapplog.txt Transport active. CSRA63007 (Mardware ID 0x432) firmware version 12897. Radio Test TXDATA2 successful Radio Test CFG PKT successful Radio Test TXDATA2 successful Radio Test TXDATA1 successful Radio Test TXDATA1 successful



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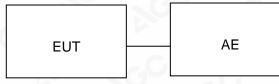
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :

	ЪГ	
EUT		AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Soundcore Mega	A3392	2AOKB-A3392	EUT
2	Adapter	DST451-150300W-K DC 15V/3A Accessor		Accessory
3	Control Box	N/A	USB-TTL	AE
4	AUX in Cable	N/A	1.0m unshielded	AE
5	MIC	N/A	1.5m unshielded	AE
6	MIC/Guitar	N/A	1.5m unshielded AE	
7	Load	N/A	20hm AE	
8	Mobile phone	J326T	N/A AE	
9	U Disk	Kingston	100 G3 AE	



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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	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	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF RADIATED EMISSION TEST

Manufacturer	Model	S/N	Cal. Date	Cal. Due
R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019
	R&S Aglient EM Electronics ZHINAN SCHWARZBECK ZHINAN ETS LINDGREN ETS LINDGREN	R&SESCIAglientN9010AEM Electronics2400-2500MHzZHINANE-002SCHWARZBECKBBHA 9170ZHINANZN30900CETS LINDGREN3117ETS LINDGREN3117PA	R&S ESCI 10096 Aglient N9010A MY53470504 EM Electronics 2400-2500MHz N/A ZHINAN E-002 N/A SCHWARZBECK BBHA 9170 #768 ZHINAN ZN30900C 18051 ETS LINDGREN 3117 00034609 ETS LINDGREN 3117PA 00225134	R&S ESCI 10096 Jun. 12, 2019 Aglient N9010A MY53470504 Dec. 20, 2018 EM Electronics 2400-2500MHz N/A Feb. 27, 2019 ZHINAN E-002 N/A Aug. 26, 2019 SCHWARZBECK BBHA 9170 #768 Sep. 21, 2017 ZHINAN ZN30900C 18051 Jun. 14, 2018 ETS LINDGREN 3117 00034609 May. 26, 2018 ETS LINDGREN 3117PA 00225134 Oct. 25, 2018



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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

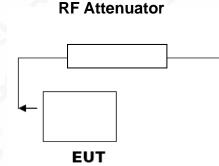
For peak power test:

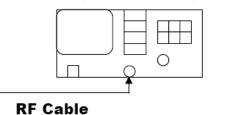
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. 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





Spectrum Analyzer

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Peak Search

7.3. LIMITS AND MEASUREMENT RESULT

2215000000 GHz

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	4.397	30	Pass		
2.441	5.951	30	Pass		
2.480	6.448	30	Pass		

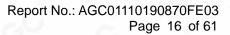
SENSE:INT Avg Type: Log-Pwr Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB

CH0





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CH78

RF 50 Ω AC Iarker 1 2.479865000000	GHz PNO: Fast Trig: Free Run FGain:Low	Avg Hold:>100/100 TYPE M DET	2 3 4 5 6 WWWWWW NNNNN
0 dB/div Ref 20.00 dBm		Mkr1 2.479 865 6.448	GHZ NextPe dBm
10.0	1		Next Pk Rig
			Next Pk L
20.0			Marker De
0.0			Mkr→
0.0			Mkr→Ref
enter 2.480000 GHz Res BW 1.5 MHz	#VBW 1.5 MHz	Span 5.00 Sweep 1.000 ms (10	Mo 00 MHz 1 d



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	FOR II /4-DQPSK N	IODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.139	30	Pass
2.441	3.987	30	Pass
2.480	4.428	30	Pass



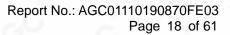


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CH0







CH78

RF 50 Ω AC Iarker 1 2.479905000000	GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB	ALIGN AUTO 04:00:20 PM Sep 19, 201 Avg Type: Log-Pwr TRACE 234 5 Avg Hold:>100/100 TYPE TYPE DET TNNN DET	6 Peak Search ₩ N
0 dB/div Ref 20.00 dBm		Mkr1 2.479 905 GH 4.428 dBr	
10.0	1		Next Pk Rig
			Next Pk L
			Marker De
			Mkr→
			Mkr→Ref
Center 2.480000 GHz Res BW 1.5 MHz	#VBW 1.5 MHz	Span 5.000 MH Sweep 1.000 ms (1001 pts	M o Z 1 o



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R
0

	PEAK OUTPUT POWER ME FOR 8-DPSK MO		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.537	30	Pass
2.441	4.346	30	Pass
2.480	4.842	30	Pass

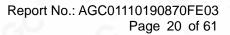




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RF 50 Ω AC Iarker 1 2.480040000000	CHZ PNO: Fast IFGain:Low CHZ Trig: Free Run Atten: 30 dB	ALIGN AUTO 04:0 Avg Type: Log-Pwr Avg Hold:>100/100	1:27 PM Sep 19, 2019 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Peak Search
0 dB/div Ref 20.00 dBm		Mkr1 2.48	80 040 GHz 4.842 dBm	Next Pe
10.0	1-		-	Next Pk Rig
				Next Pk L
20.0 pm				Marker De
0.0				Mkr→
				Mkr→Refl
Center 2.480000 GHz Res BW 1.5 MHz	#VBW 1.5 MHz	Sp Sweep 1.000	an 5.000 MHz ms (1001 pts)	M c 1 c



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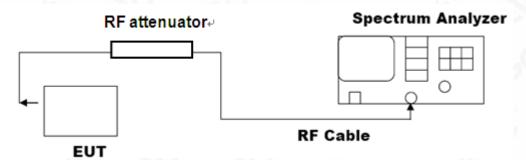


8. 20DB BANDWIDTH

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 Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION						
Appliaghta Limita	Measurement Result					
Applicable Limits	Test Data (MHz)		Criteria			
N/A	Low Channel	0.9353	PASS			
	Middle Channel	0.9394	PASS			
	High Channel	0.9428	PASS			





TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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MEASUREMENT RESULT FOR II /4-DQPSK MODULATION						
Measurement Result						
Applicable Limits	Test Data (MHz)		Criteria			
	Low Channel	1.227	PASS			
N/A	Middle Channel	1.227	PASS			
	High Channel	1.227	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

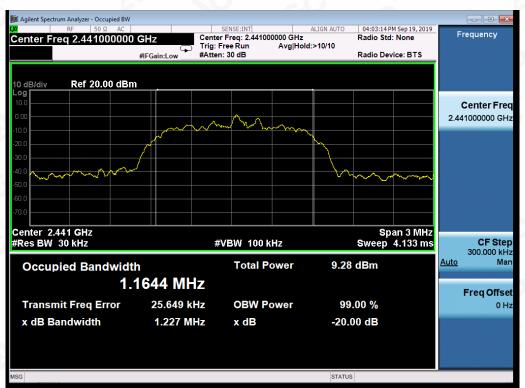




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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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MEASUREMENT RESULT FOR 8-DPSK MODULATION						
Measurement Result						
Applicable Limits	Test Data	Test Data (MHz)				
	Low Channel	1.256	PASS			
N/A	Middle Channel	1.255	PASS			
	High Channel	1.255	PASS			

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.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEA	SUREMENT RESULT			
	Measurement Result			
Applicable Limits	Test Data At least -20dBc than the limit Specified on the BOTTOM Channel	Criteria		
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	Specified on the BOTTOM	PASS		
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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS		



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TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL

ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search Trig: Free Run Atten: 30 dB PNO: Wide IFGain:Low Next Peak Mkr1 2.401 863 41 GHz 0.641 dBm 0 dB/div Ref 20.00 dBm Next Pk Right Next Pk Lef Marker Delta Mkr→C Mkr→RefLv More Center 2.402000 GHz #Res BW 100 kHz Span 5.000 MHz Sweep 2.000 ms (30000 pts) 1 of 2 #VBW 300 kHz

Peak Search	E 1 2 3 4 5 6 E M WWWW	ALIGN AUTO 04:27:38 PM Sep 19, 2019 Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 Avg Hold:>100/100 TYPE THACE 1 2 3 4 5 6 DET P.N.N.N.N DET P.N.N.N.N			Trig: Free Run Atten: 30 dB		0 GHz PNO: Fast (IFGain:Low	50 Ω AC 56734291143	r 3 21.5	arke
Next Pea	7 3 GHz 95 dBm	3 21.567 -49.59	Mkr					f 20.00 dBm	iv Ref) dB/
Next Pk Rigi										9 g - 0.0 -
Next Pk Le	-19.36 dBm									0.0
Marker Del										0.0
	5.00 GHz		Sweep 2		-lz	W 300 kH	#VB		0 MHz W 100	
Mkr→C	0000 pts)	•	-	EUNCTION		Y		X	E TRC SCL	KR MO
		FUNCTIO	NCTION WIDTH	FUNCTION	dBm	Y -50.413 d -50.483 d -49.595 d	599 3 GHz 192 9 GHz 567 3 GHz	20.8 23.1	E TRC SCL 1 f 1 f 1 f 1 f	KR MO 1 N 2 N 3 N 4 5 6
Mkr→C Mkr→RefL Mor 1 of		•	-	FUNCTION	dBm	-50.413 d -50.483 d	92 9 GHz	20.8 23.1	1 f 1 f	1 N 2 N 3 N 4

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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

Ref 20.00 dBm 10 dB/div -og **r** Next Pk Right Next Pk Left <mark>}</mark>³⊘¹ Marker Delta Start 30 MHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.388 s (30000 pts) #VBW 300 kHz Mkr→CF <u>49.726 dBn</u> 49.879 dBn 20.746 6 G Mkr→RefLv More 1 of 2 STATUS



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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The 8DPSK modulation is the worst case and only those data recorded in the report.



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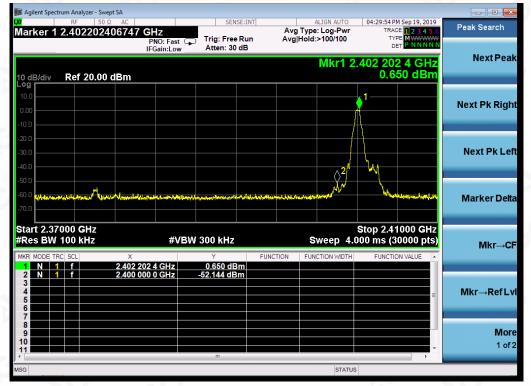
STATUS



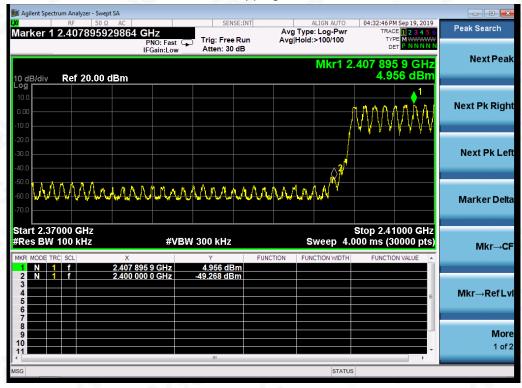
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off



Hopping on



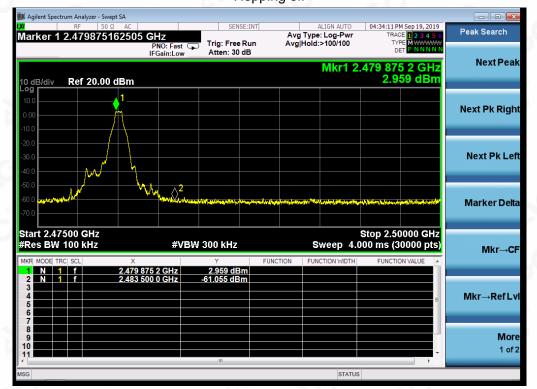
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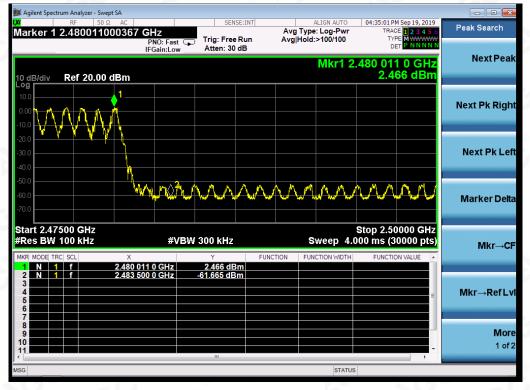
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GFSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on

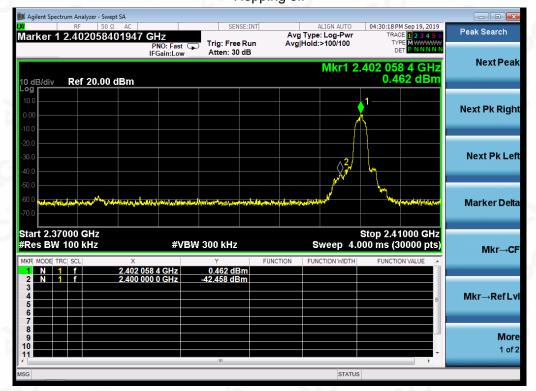




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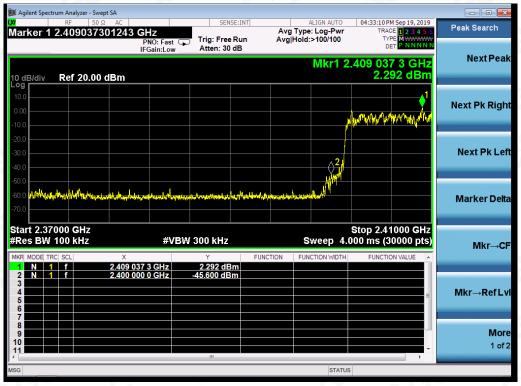
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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



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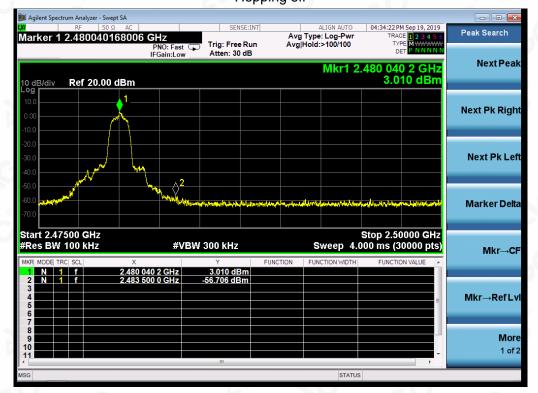
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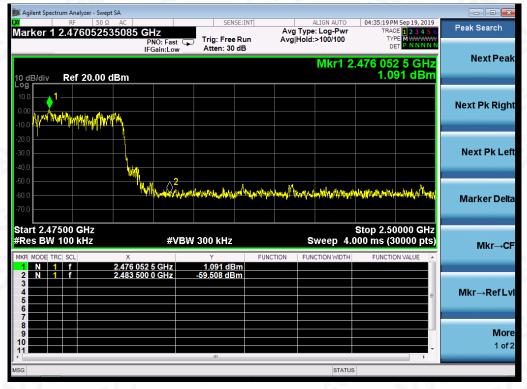
 Service Hotline:400 089 2118





π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on

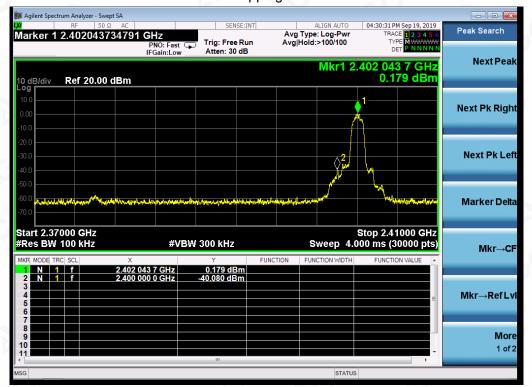




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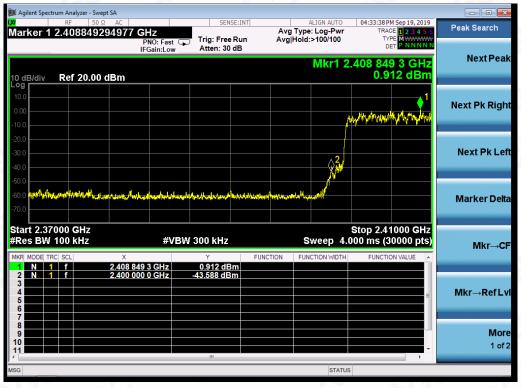
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





8-DPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on

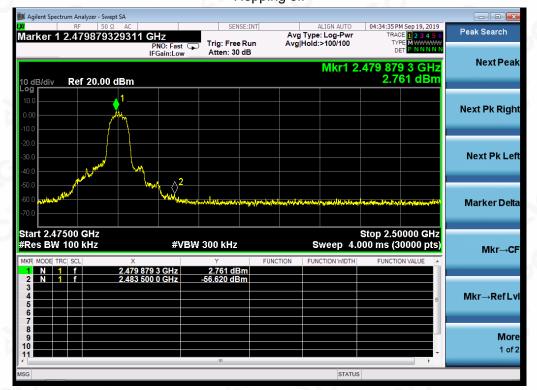


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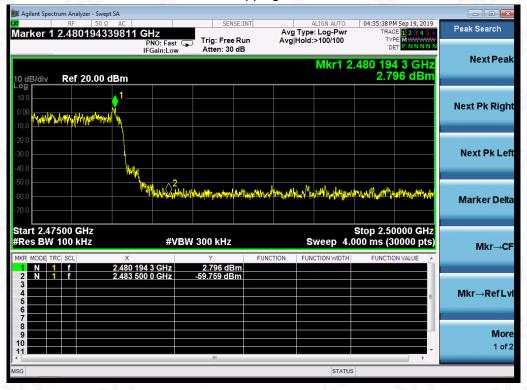
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8-DPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on





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10. RADIATED EMISSION

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

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		
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average		

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



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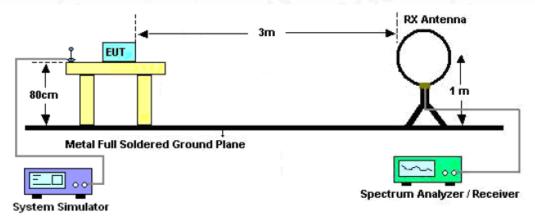
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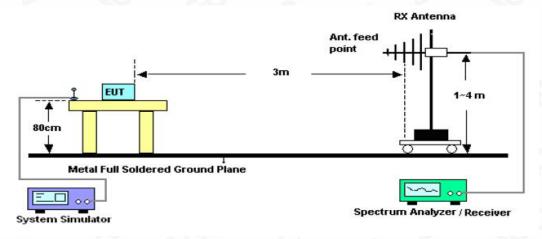


10.2. TEST SETUP

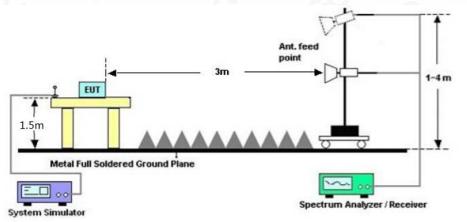
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



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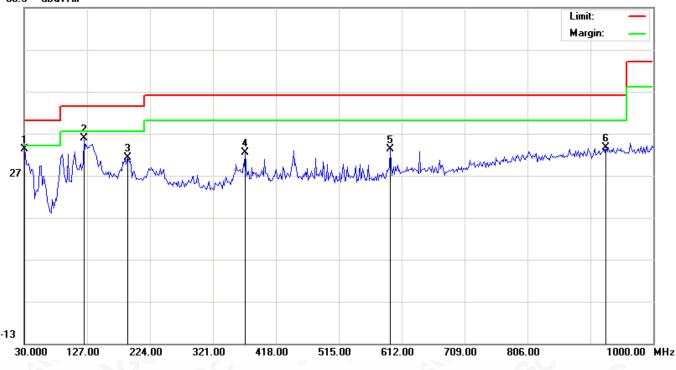
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RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore Mega	Model Name	A3392
Femperature 25°C Relative Humidity		Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	30.0000	15.05	18.17	33.22	40.00	-6.78	peak			
2		122.1500	17.72	18.11	35.83	43.50	-7.67	peak			
3		190.0500	14.58	16.59	31.17	43.50	-12.33	peak			
4		371.1166	10.42	21.97	32.39	46.00	-13.61	peak			
5		594.2166	6.39	26.84	33.23	46.00	-12.77	peak			
6		927.2500	1.66	31.93	33.59	46.00	-12.41	peak			

RESULT: PASS

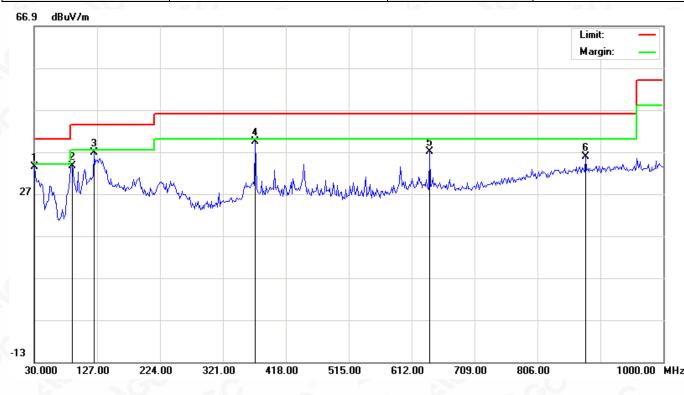


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EUT	Soundcore Mega	Model Name	A3392
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		30.0000	15.20	18.17	33.37	40.00	-6.63	peak			
2		88.2000	18.69	14.97	33.66	43.50	-9.84	peak			
3		122.1500	18.64	18.11	36.75	43.50	-6.75	peak			
4	*	371.1166	17.41	21.97	39.38	46.00	-6.62	peak			
5		639.4832	9.61	27.42	37.03	46.00	-8.97	peak			
6		880.3667	4.28	31.45	35.73	46.00	-10.27	peak			

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	Soundcore Mega	Model Name	A3392
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	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	53.45	0.08	53.53	74	-20.47	peak 💿
4804.000	46.31	0.08	46.39	54	-7.61	AVG
7206.000	49.55	2.21	51.76	74	-22.24	peak
7206.000	40.71	2.21	42.92	54	-11.08	AVG
Ser .	20			SO ²	- 0	
emark:						

EUT	Soundcore Mega	Model Name	A3392
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	50.08	0.08	50.16	74	-23.84	peak
4804.000	42.85	0.08	42.93	54	-11.07	AVG
7206.000	46.62	2.21	48.83	74	-25.17	peak
7206.000	37.42	2.21	39.63	54	-14.37	AVG
			20		(R)	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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EUT	Soundcore Mega	Model Name	A3392
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
4882.000	54.35	0.14	54.49	74	-19.51	peak
4882.000	47.15	0.14	47.29	54	-6.71	AVG
7323.000	48.57	2.36	50.93	74	-23.07	peak
7323.000	40.57	2.36	42.93	54	-11.07	AVG
C.	®		9	0	8	
emark:	- 6	8			- 6	®
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- G

EUT	Soundcore Mega	Model Name	A3392
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin) /alua Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4882.000	51.33	0.14	51.47	74	-22.53	peak
4882.000	45.46	0.14	45.6	54	-8.4	AVG
7323.000	46.29	2.36	48.65	74	-25.35	peak
7323.000	37.77	2.36	40.13	54	-13.87	AVG
		100	0			

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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EUT	Soundcore Mega	Model Name	A3392
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	52.92	0.22	53.14	74	-20.86	peak
4960.000	44.86	0.22	45.08	54	-8.92	AVG
7440.000	45.65	2.64	48.29	74	-25.71	peak
7440.000	38.49	2.64	41.13	54	-12.87	AVG
C.	8		9 . 69		ß	
emark:	- 6	0		~0V	- 6	®
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			- G

EUT	Soundcore Mega	Model Name	A3392
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	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4960.000	50.52	0.22	50.74	74	-23.26	peak
4960.000	43.88	0.22	44.1	54	-9.9	AVG
7440.000	42.17	2.64	44.81	74	-29.19	peak
7440.000	35.96	2.64	38.6	54	-15.4	AVG
		- 6 ⁰	0			

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.



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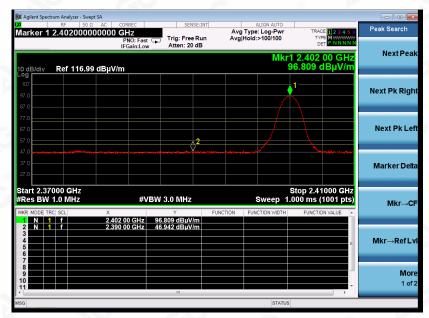
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EUT	Soundcore Mega	Model Name	A3392
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS



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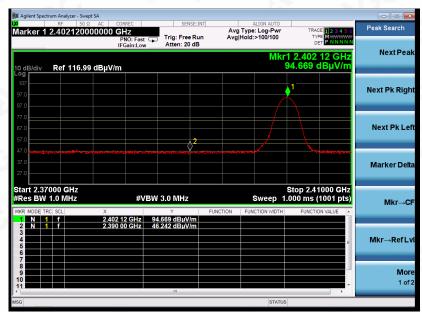
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EUT	Soundcore Mega	Model Name	A3392
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

ΡK



AV

Agilent Spect	rum Analyzer - Sw	ept SA						(A)	
	RF 50 2.4021200	Ω AC CO 000000 G	ORREC HZ PNO: Fast FGain:Low		Run Av	ALIGN AUTO /g Type: RMS g Hold:>100/100	TYP	E 1 2 3 4 5 6 A WWWWW A N N N N N	Peak Search
0 dB/div	Ref 116.9					Mk	r1 2.402 90.058 d	12 GHz BµV/m	NextPea
. og 107 97.0							1		Next Pk Rig
87.0 77.0 67.0									Next Pk Le
47.0 37.0 27.0					2				Marker De
Res BW			#V	BW 3.0 MHz*	SUNCTION		Stop 2.41 1.000 ms (′	001 pts)	Mkr→C
IKR MODE TR 1 N 1 2 N 1 3 4 5 6	f		12 GHz 00 GHz	90.054 dBµV/i 36.515 dBµV/i	FUNCTION	FUNCTION WIDTH	FUNCTIO		Mkr→RefL
7 8 9 10									Мо 1 о
SG						STATU	s		

RESULT: PASS



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EUT	Soundcore Mega	Model Name	A3392
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

ΡK

arker 1 2.480025000000 GHz Avg Type: Log-Pv Avg|Hold:>100/10 Trig: Free Run Atten: 20 dB IEG NextPea 116.99 dBµV/m Next Pk Righ Next Pk L Marker De Stop 2.50000 GHz 1.000 ms (1001 pts) Start 2.47500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep Mkr 2.480 025 GHz 98.990 dBµV/ 2.483 500 GHz 48.803 dBµV/ Mkr→RefL Мо

AV

	RF 50 Ω		SENSE:		ALIGN AUTO		Deek Seereb
arker 1 2.	480050000	1000 GHz PNO: Fas IFGain:Lo	t Trig: Free Ru w Atten: 20 dE	un Avg	g Type: RMS j Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNN	Peak Search
) dB/div	tef 116.99 d	BµV/m			Mkr1 9	2.480 050 GHz 3.972 dBµV/m	Next Pe
7.0		1					Next Pk Rig
77.0 57.0 57.0							Next Pk L
17.0 37.0 27.0		, di	2				Marker De
tart 2.4750 Res BW 1.0	0 MHz	#1	/BW 3.0 MHz*		Sweep 1.	6top 2.50000 GHz 000 ms (1001 pts)	Mkr⊸
KR MODE TRC S	f	× 2.480 050 GHz 2.483 500 GHz		FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
3 4 5 6 6						E	Mkr→Refl
7 8 9							M d 1 d

RESULT: PASS



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EUT	Soundcore Mega	Model Name	A3392
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

alyzer - Swept SA Peak Searc larker 1 2.480000000000 GHz Avg Type: Log-Pv Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB PNO: Fi NextPea Ref 116.99 dBµV/m Next Pk Righ Next Pk L Marker De Stop 2.50000 GHz 1.000 ms (1001 pts) Start 2.47500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep Mkr-2.480 000 GHz 96.923 dBµV/r 2.483 500 GHz 47.252 dBµV/r Mkr→RefL Mor

PK





RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The GFSK modulation is the worst case and recorded in the report.



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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT	
HOPPING CHANNEL	>=15	79	PASS	

Marker Avg Type: Log-Pw Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB Select Marke ΔMkr1 Ref 20.00 dBm Norma Delta Fixed 2.40000 GHz #VBW 300 kHz Of 78.072 5 MH: 2.402 087 5 GH: Properties Mor 1 of 3

TEST PLOT FOR NO. OF TOTAL CHANNELS

Note: The GFSK modulation is the worst case and recorded in the report.



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.900	27*4	313.200	400
Middle	2.900	27*4	313.200	400
High	2.900	27*4	313.200	400

Note: The GFSK modulation is the worst case and recorded in the report.

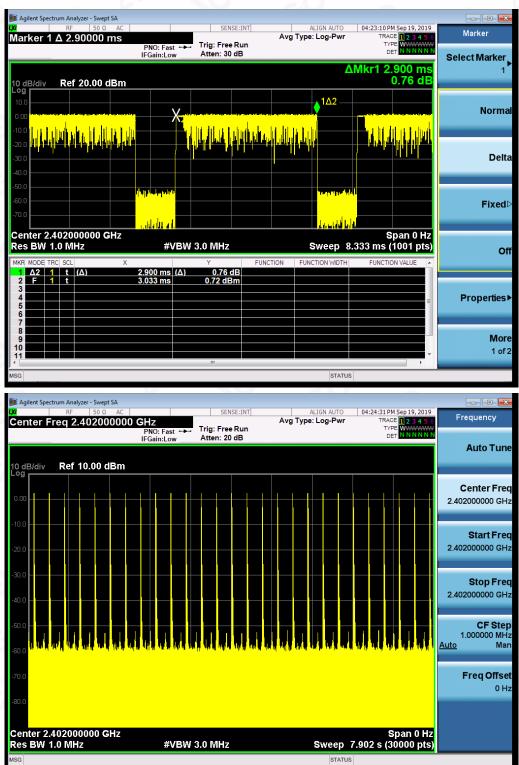


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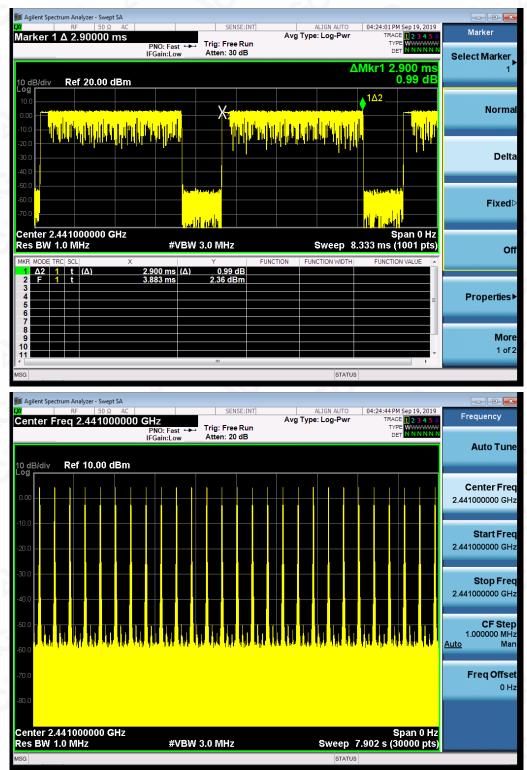
TEST PLOT OF LOW CHANNEL



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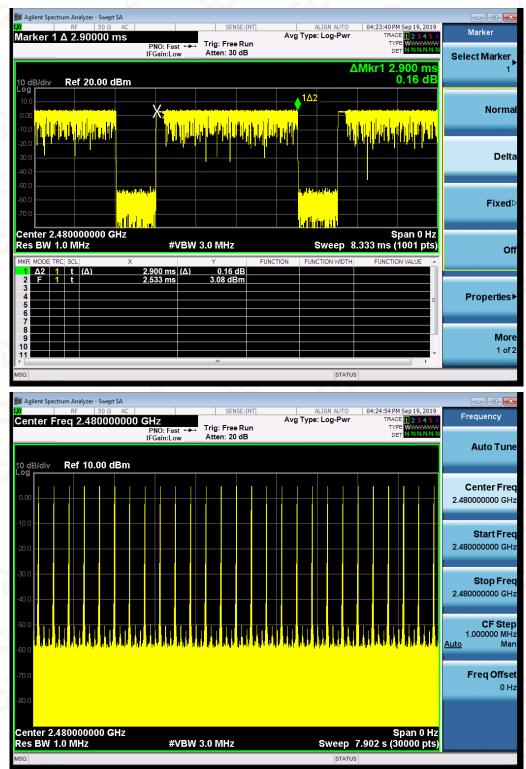
TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION KHz	LIMIT (KHz)	RESULT	
CH01-CH02	1000	>=25 KHz or 2/3 20 dB BW	PASS	

Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 arker 2 2.403035000000 GHz Trig: Free Run Atten: 30 dB NO: Wide 🖵 Next Peal Mkr2 2.403 2.176 dE Ref 20.00 dBm Next Pk Right Next Pk Lef Marker Delta Start 2.400000 GHz #Res BW 100 kHz Stop 2.405000 GHz Sweep 1.000 ms (1001 pts) #VBW 300 kHz Mkr→CF 2.402 035 GHz 2.403 035 GHz 0.642 dBn 2.176 dBn Mkr→RefL Mor 1 of

TEST PLOT FOR FREQUENCY SEPARATION

Note: The GFSK modulation is the worst case and recorded in the report.



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14. FCC LINE CONDUCTED EMISSION TEST

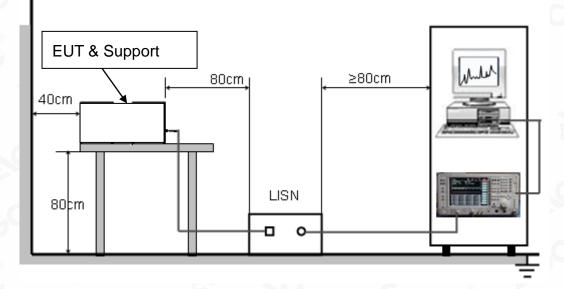
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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14.3. 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 equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by 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.

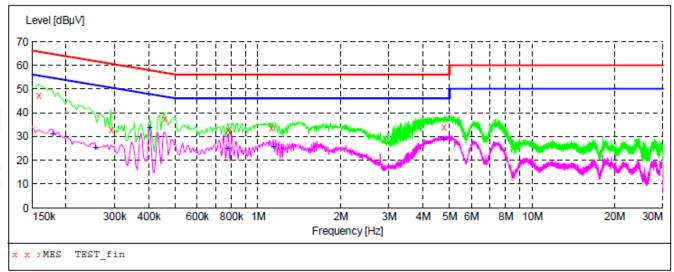
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

14.4. 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.







14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "TEST_fin"

9/18/2019 2:2 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.158000	47.30	10.8	66	18.3	~	L1	FLO
0.290000	33.00	10.9	61	27.5		L1	FLO
0.454000	37.40	10.8	57	19.4		L1	FLO
0.774000	32.80	10.6	56	23.2		L1	FLO
1.114000	33.50	11.5	56	22.5		L1	FLO
4.746000	34.10	11.6	56	21.9		L1	FLO

MEASUREMENT RESULT: "TEST fin2"

9/18/2019 2	:24 PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.178000	31.20	10.9	55	23.4	AV	L1	FLO
0.254000	25.30	10.9	52	26.3	AV	L1	FLO
0.402000		10.3	48	14.3	AV	L1	FLO
0.774000		10.6	46	21.0	AV	L1	FLO
1.138000	25.50	11.5	46	20.5	AV	L1	FLO
4.746000	28.80	11.6	46	17.2	AV	L1	FLO

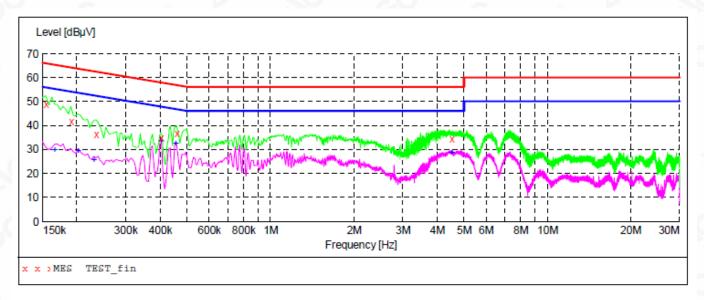


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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

9/18/2019 2:3	1PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.154000	48.70	10.8	66	17.1	QP	N	FLO
0.190000	41.50	10.9	64	22.5	QP	N	FLO
0.234000	36.30	10.9	62	26.0	Q̃₽	N	FLO
0.402000	35.00	10.3	58	22.8	QP	N	FLO
0.458000	36.60	10.8	57	20.1	OP	Ν	FLO
4.502000	34.50	11.6	56	21.5	Q̃₽	N	FLO

MEASUREMENT RESULT: "TEST fin2"

9/18/2019 2:	31PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.166000	29.80	10.8	55	25.4	AV	N	FLO
0.202000	29.50	10.9	54	24.0	AV	N	FLO
0.230000	25.60	10.9	52	26.8	AV	N	FLO
0.402000	33.50	10.3	48	14.3	AV	N	FLO
0.454000	32.50	10.8	47	14.3	AV	N	FLO
4.502000	28.50	11.6	46	17.5	AV	Ν	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 3 was the worst case. Only the data of the worst case would be record in this test report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to Attached file(appendix I)

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to Attached file(appendix I)

----END OF REPORT----



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