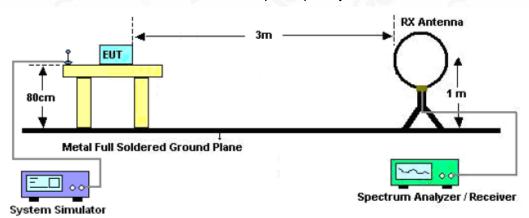
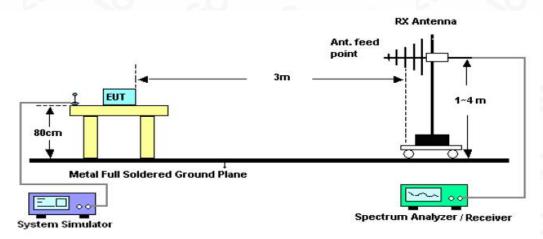


10.2. TEST SETUP

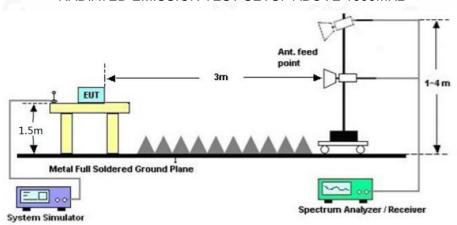
Radiated Emission Test-Setup Frequency Below 30MHz



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 (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.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

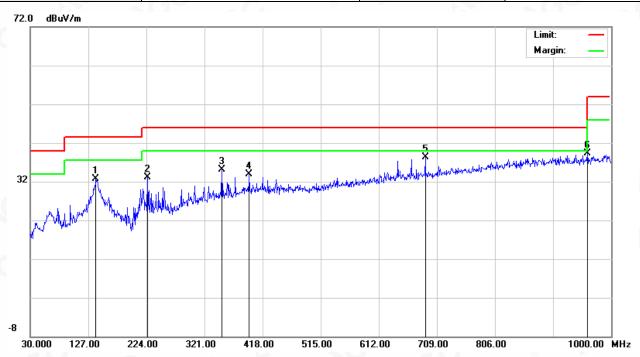
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Past not/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter pathorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



RADIATED EMISSION BELOW 1GHz

EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



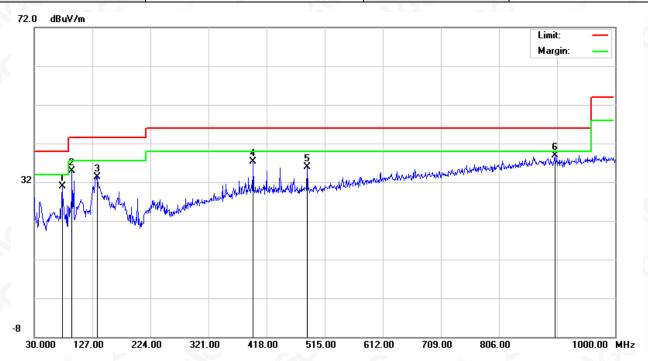
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	,	139.6100	11.47	21.17	32.64	43.50	-10.86	peak
2	2	225.9400	15.43	17.66	33.09	46.00	-12.91	peak
3	3	350.1000	11.84	23.23	35.07	46.00	-10.93	peak
4	3	395.6900	9.07	24.83	33.90	46.00	-12.10	peak
5	* (689.6000	10.31	28.03	38.34	46.00	-7.66	peak
6	Ç	960.2300	7.12	32.22	39.34	54.00	-14.66	peak

RESULT: PASS

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EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		76.5600	15.25	15.69	30.94	40.00	-9.06	peak
2		93.0500	19.69	15.29	34.98	43.50	-8.52	peak
3		135.7300	12.78	20.53	33.31	43.50	-10.19	peak
4		395.6900	12.57	24.83	37.40	46.00	-8.60	peak
5		485.9000	10.82	24.99	35.81	46.00	-10.19	peak
6	*	899.1200	7.12	31.69	38.81	46.00	-7.19	peak

RESULT: PASS

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

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

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/Inspection The test results the test report.

RADIATED EMISSION ABOVE 1GHz

EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
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	45.36	0.08	45.44	74	-28.56	peak
4804.000	37.48	0.08	37.56	54	-16.44	AVG
7206.000	40.51	2.21	42.72	74	-31.28	peak
7206.000	32.49	2.21	34.7	54	-19.3	AVG
	C	8	@			8
emark:			©			

EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
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	44.63	0.08	44.71	74	-29.29	peak
4804.000	36.52	0.08	36.6	54	-17.4	AVG
7206.000	39.58	2.21	41.79	74	-32.21	peak
7206.000	30.54	2.21	32.75	54	-21.25	AVG
						®
emark:		0	0			
actor = Anter	na Factor + Cable	Loss - Pre-	amplifier.			

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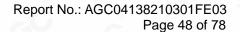
EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	45.87	0.14	46.01	74	-27.99	peak
4882.000	38.69	0.14	38.83	54	-15.17	AVG
7323.000	41.65	2.36	9 44.01	74	-29.99	peak
7323.000	34.52	2.36	36.88	54	-17.12	AVG
8				6	(0)	
emark:				GU	z.C	
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.73	0.14	45.87	74	-28.13	peak
4882.000	37.63	0.14	37.77	54	-16.23	AVG
7323.000	40.54	2.36	42.9	74	-31.1	peak
7323.000	31.42	2.36	33.78	54	-20.22	AVG
	(6)			- G	©	
					.C	(8)
Remark:						
Factor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.	(8)		

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EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
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	46.45	0.22	46.67	74	-27.33	peak
4960.000	38.38	0.22	38.6	54	-15.4	AVG
7440.000	41.12	2.64	43.76	74	-30.24	peak
7440.000	32.17	2.64	34.81	54	-19.19	AVG
(8)				(8)		
temark:		>				
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			

EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
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	\/alua Trea
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4960.000	45.63	0.22	45.85	74 🏻	-28.15	peak
4960.000	38.56	0.22	38.78	54	-15.22	AVG
7440.000	41.62	2.64	44.26	74	-29.74	peak
7440.000	33.41	2.64	36.05	54	-17.95	AVG
8			60		(e)	
emark:	8					®
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			

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, Margin= Level-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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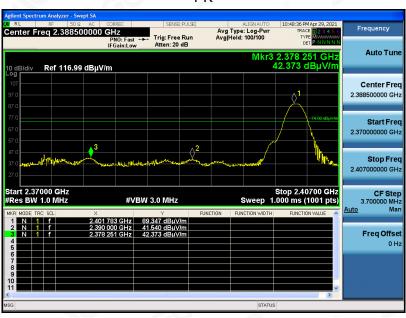
The test results



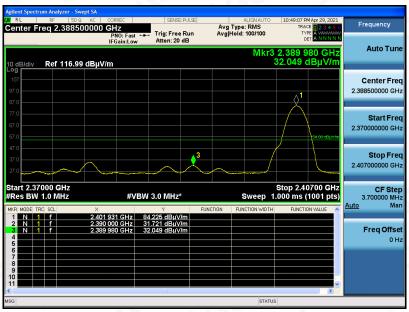
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



ΑV



RESULT: PASS

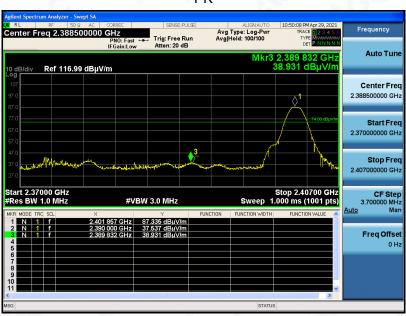
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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK

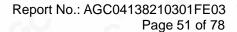


ΑV



RESULT: PASS

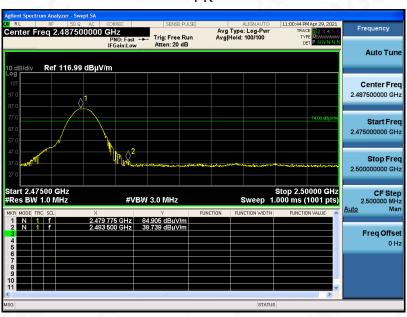
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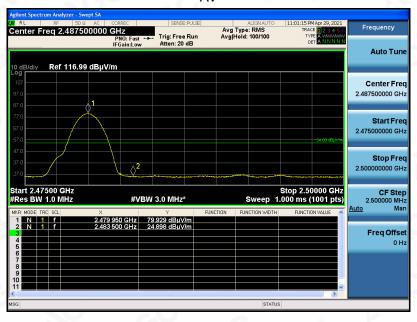


EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



ΑV



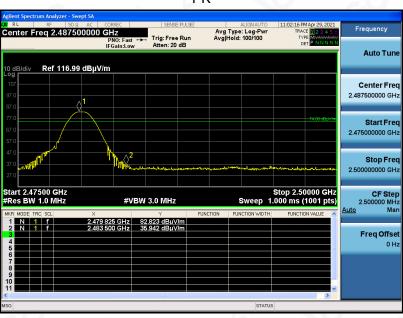
RESULT: PASS

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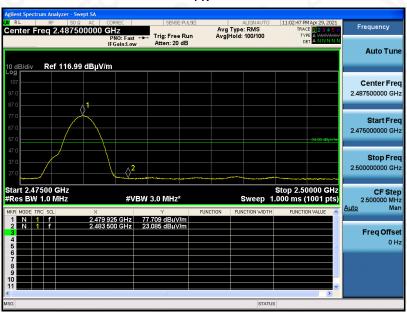


EUT	MP3+G KARAOKE PLAYER WITH BLUETOOTH	Model Name	SML654
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK







RESULT: PASS

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

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 ≤ 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

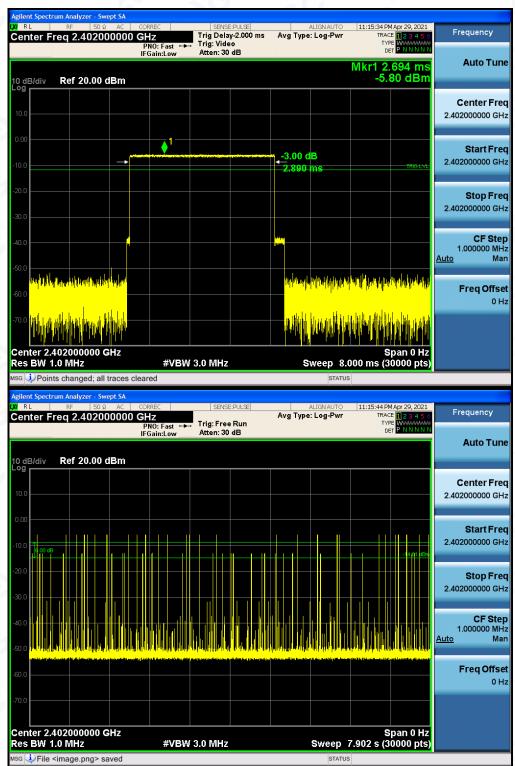
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.890	28*4	323.680	400
Middle	2.890	27*4	312.120	400
High	2.890	28*4	323.680	400

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

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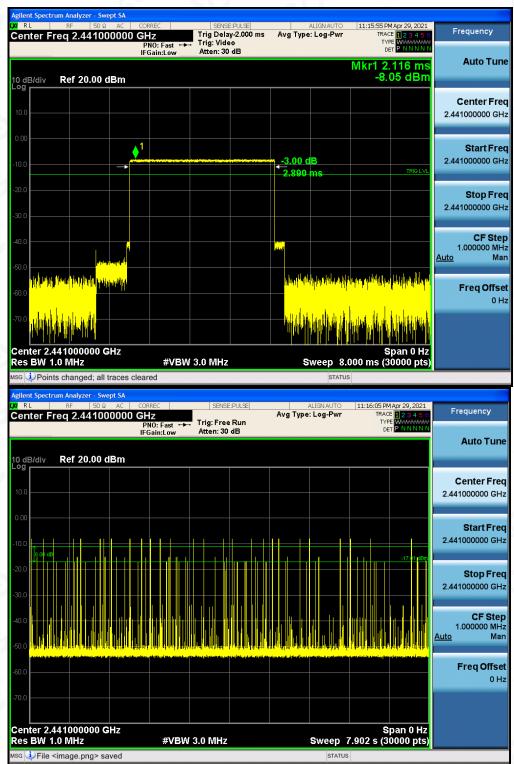
TEST PLOT OF LOW CHANNEL



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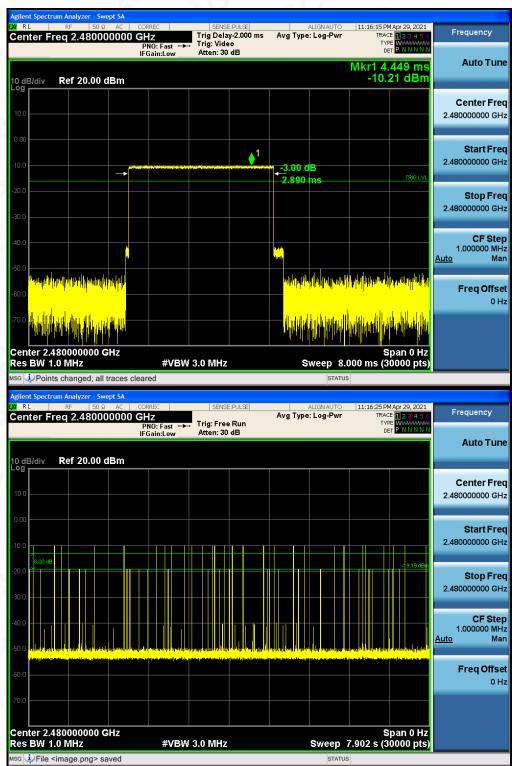
TEST PLOT OF MIDDLE CHANNEL



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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) ≥ 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

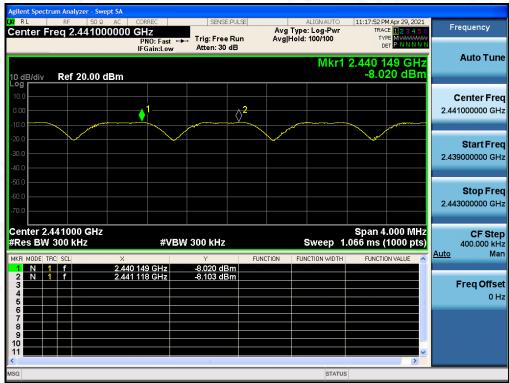
13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	MHz		
Hopping mode	0.969	2/3* 20 dB BW	Pass

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

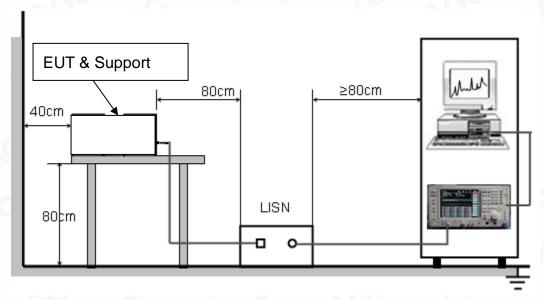
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

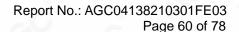
Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

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

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

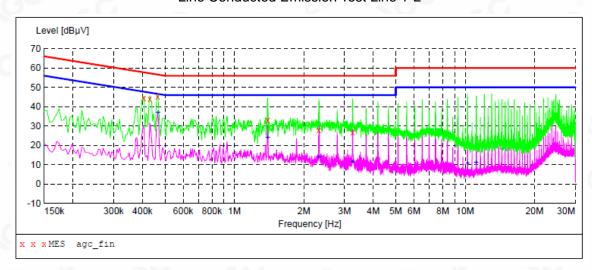
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc fin"

2021/4/25 22:22

2021	/4/25 22:	44						
F	requency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.406000	44.30	12.4	58	13.4	QP	L1	GND
	0.430000	43.90	12.4	57	13.4	QP	L1	GND
	0.466000	45.20	12.4	57	11.4	QP	L1	GND
	1.394000	33.00	12.5	56	23.0	QP	L1	GND
	2.322000	28.00	12.5	56	28.0	QP	L1	GND
	3.254000	26.70	12.5	56	29.3	QP	L1	GND

MEASUREMENT RESULT: "agc fin2"

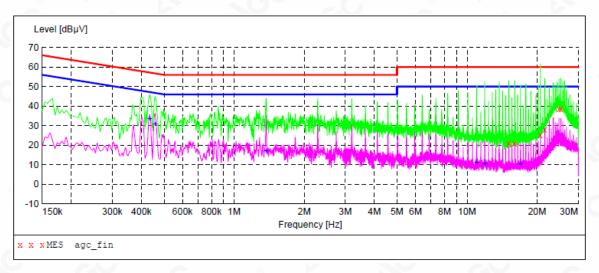
2021/4/25 22:22

221/1/20 22.							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.466000	36.90	12.4	47	9.7	AV	L1	GND
1.394000	24.10	12.5	46	21.9	AV	L1	GND
2.322000	14.00	12.5	46	32.0	AV	L1	GND
3.254000	11.60	12.5	46	34.4	AV	L1	GND
10.238000	10.70	13.0	50	39.3	AV	L1	GND
11.166000	11.30	13.3	50	38.7	AV	L1	GND

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc fin"

2021/4/25 22:18										
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE			
15.110000	20.80	14.3	60	39.2	QP	N	GND			
16.030000	21.00	14.4	60	39.0	QP	N	GND			
20.626000	25.20	14.8	60	34.8	QP	N	GND			
21.534000	28.10	14.9	60	31.9	QP	N	GND			
24.806000	38.40	15.1	60	21.6	QP	N	GND			
25.274000	38.40	15.2	60	21.6	QP	N	GND			

MEASUREMENT RESULT: "agc fin2"

2021/4/25	22:18						
Freque:	_		sd Limit dB dBµV	_	Detector	Line	PE
0.434	000 3	3.50 12	.4 47	13.7	AV	N	GND
0.458	000 3	0.60 12	.4 47	16.1	AV	N	GND
1.370	000 1	6.80 12	.5 46	29.2	AV	N	GND
10.990	000 1	0.90 13	.2 50	39.1	AV	N	GND
11.902	000 1	0.40 13	.5 50	39.6	AV	N	GND
16.950	000 1	0.20 14	.5 50	39.8	AV	N	GND

RESULT: PASS

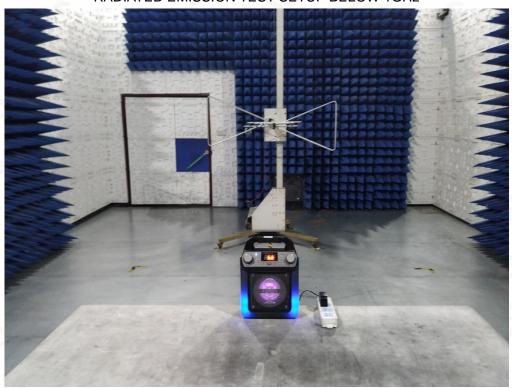
Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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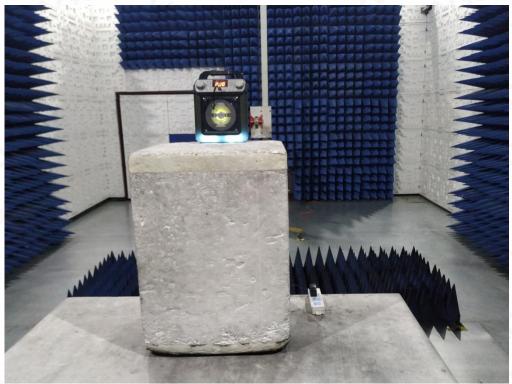


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHz



RADIATED EMISSION TEST SETUP ABOVE 1GHz



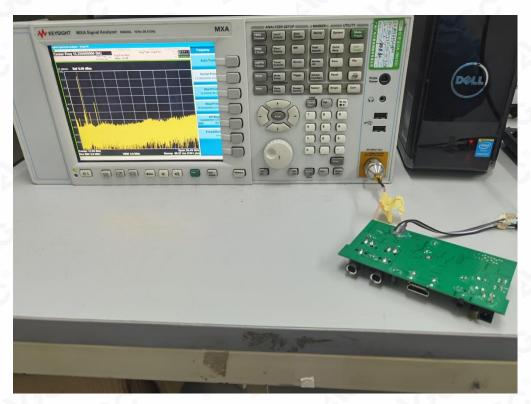
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CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

WHOLE VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



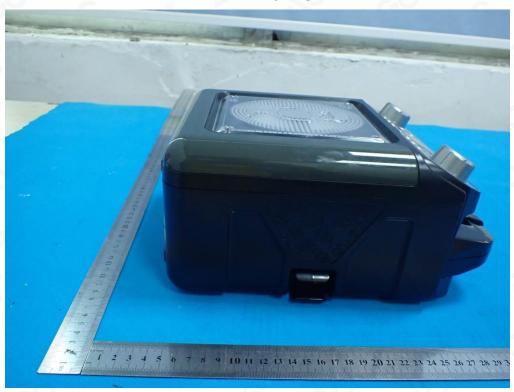
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BACK VIEW OF EUT



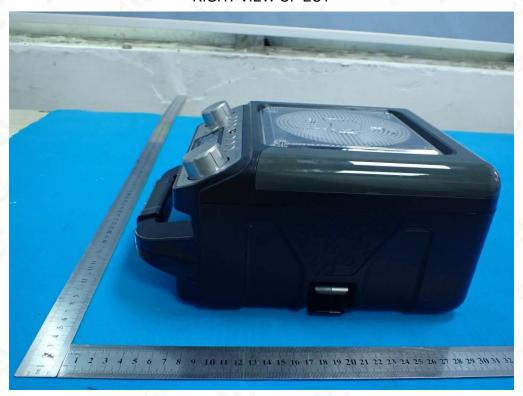
LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT(PORT)-1



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VIEW OF EUT(PORT)-2



VIEW OF EUT(PORT)-3



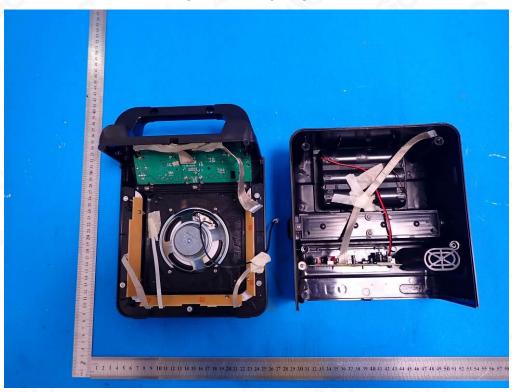
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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



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