

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

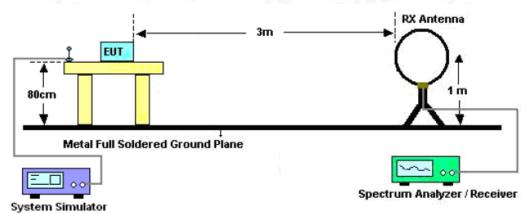
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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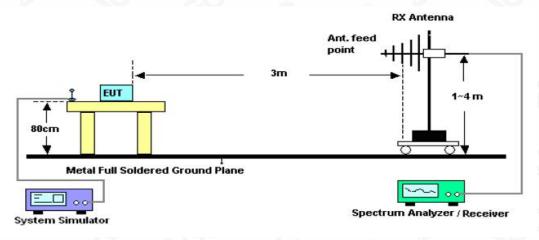


# 10.2. TEST SETUP

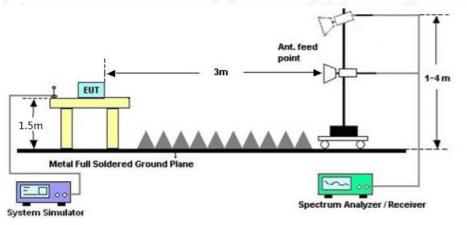
Radiated Emission Test-Setup Frequency Below 30MHz



# 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.

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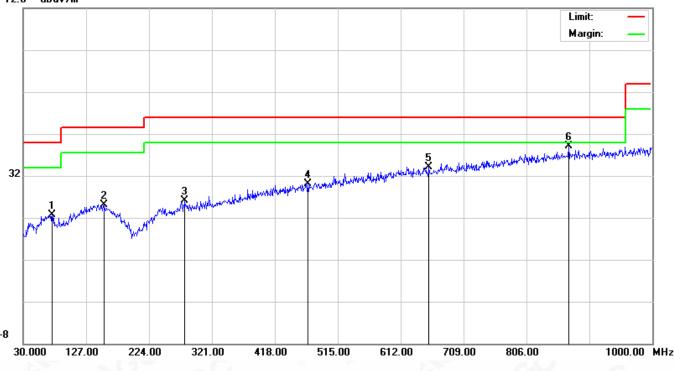


#### Report No.: AGC02031201001FE03 Page 44 of 69

# **RADIATED EMISSION BELOW 1GHz**

EUT	Bluetooth Module	Model Name F-3320	
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

#### 72.0 dBu∀/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		74.6200	6.51	16.11	22.62	40.00	-17.38	peak
2	1	154.1600	5.91	19.20	25.11	43.50	-18.39	peak
3	2	279.2900	6.22	19.88	26.10	46.00	-19.90	peak
4	4	469.4100	5.79	24.38	30.17	46.00	-15.83	peak
5	6	655.6500	6.57	27.62	34.19	46.00	-11.81	peak
6	* {	370.9900	7.75	31.33	39.08	46.00	-6.92	peak

# **RESULT: PASS**

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Report No.: AGC02031201001FE03 Page 45 of 69

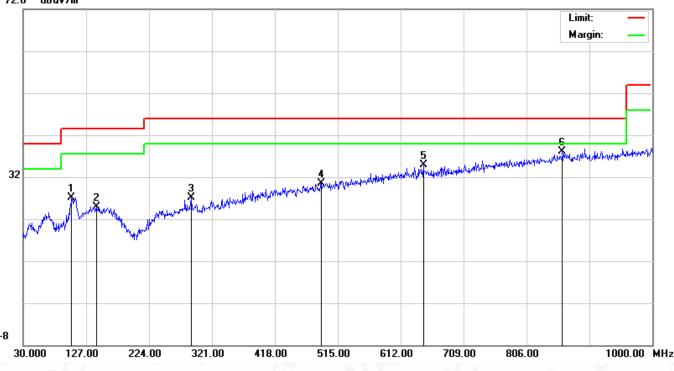
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#### Report No.: AGC02031201001FE03 Page 46 of 69

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

72.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		104.6900	10.67	16.47	27.14	43.50	-16.36	peak
2		142.5200	5.73	19.22	24.95	43.50	-18.55	peak
3	2	288.9900	7.29	19.73	27.02	46.00	-18.98	peak
4	4	489.7800	5.74	24.78	30.52	46.00	-15.48	peak
5	(	646.9200	7.43	27.51	34.94	46.00	-11.06	peak
6	* (	861.2900	6.99	31.20	38.19	46.00	-7.81	peak

# **RESULT: PASS**

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

2. All test modes had been pre-tested. The mode 9 is the worst case and recorded in the report.

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## Report No.: AGC02031201001FE03 Page 47 of 69

# **RADIATED EMISSION ABOVE 1GHz**

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.53	0.08	44.61	74	-29.39	peak 💿
4804.000	35.25	0.08	35.33	54	-18.67	AVG
7206.000	40.67	2.21	42.88	74	-31.12	peak
7206.000	31.94	2.21	34.15	54	-19.85	AVG
	20				20	
emark:			· · · · · · · · · · · · · · · · · · ·			2
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.	8		

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	43.86	0.08	43.94	74	-30.06	peak
4804.000	34.37	0.08	34.45	54	-19.55	AVG
7206.000	40.12	2.21	42.33	74	-31.67	peak
7206.000	31.33	2.21	33.54	54	-20.46	AVG
- 60				<u>y</u>	<u>G</u>	
emark:	0					
actor = Anter	na Factor + Cabl	e Loss – Pre-a	amplifier.	9		

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#### Report No.: AGC02031201001FE03 Page 48 of 69

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
42.79	0.14	42.93	74	-31.07	peak
34.63	0.14	34.77	54	-19.23	AVG
40.58	2.36	42.94	74	-31.06	peak
31.45	2.36	33.81	54	-20.19	AVG
0			3	©	
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	42.79 34.63 40.58 31.45	42.79         0.14           34.63         0.14           40.58         2.36           31.45         2.36	42.79         0.14         42.93           34.63         0.14         34.77           40.58         2.36         42.94	42.79         0.14         42.93         74           34.63         0.14         34.77         54           40.58         2.36         42.94         74           31.45         2.36         33.81         54	42.79         0.14         42.93         74         -31.07           34.63         0.14         34.77         54         -19.23           40.58         2.36         42.94         74         -31.06           31.45         2.36         33.81         54         -20.19

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4882.000	42.03	0.14	42.17	74	-31.83	peak
4882.000	33.97	0.14	34.11	54	-19.89	AVG
7323.000	39.75	2.36	42.11	74	-31.89	peak
7323.000	30.88	2.36	33.24	54	-20.76	AVG
	0					
	®					8
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actor - Antor	ana Eastar + Cable	Looo Dro	amplifiar			

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

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#### Report No.: AGC02031201001FE03 Page 49 of 69

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	47.95	0.22	48.17	74	-25.83	peak
4960.000	39.42	0.22	39.64	54	-14.36	AVG
7440.000	44.84	2.64	47.48	74	-26.52	peak
7440.000	34.18	2.64	36.82	54	-17.18	AVG
8				8	0	
emark:		8		10	- 6	8
ctor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			- 6

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.77	0.22	46.99	74	-27.01	peak
4960.000	37.42	0.22	37.64	54	-16.36	AVG
7440.000	43.89	2.64	46.53	74	-27.47	peak
7440.000	34.54	2.64	37.18	54	-16.82	AVG
		- C	8			
				8		

Factor = Antenna 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, Over=Measure-Limit.

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

All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.

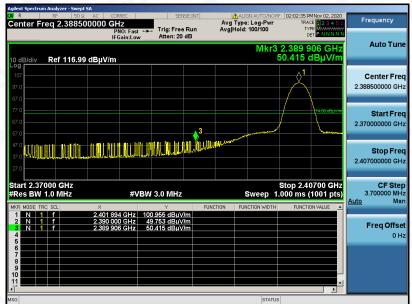
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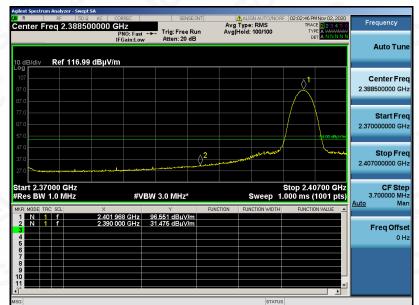
EUT	Bluetooth Module	Model Name	F-3320	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 7	Antenna	Horizontal	

## TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



## **RESULT: PASS**

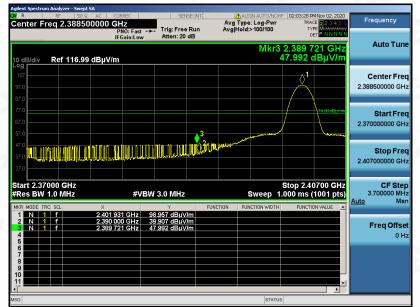
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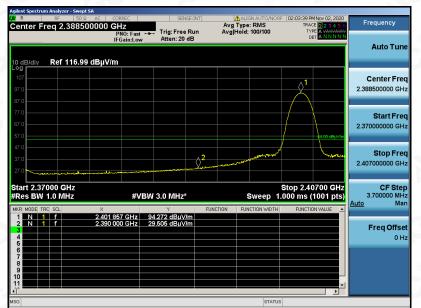
#### Report No.: AGC02031201001FE03 Page 51 of 69

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

PK



AV



**RESULT: PASS** 

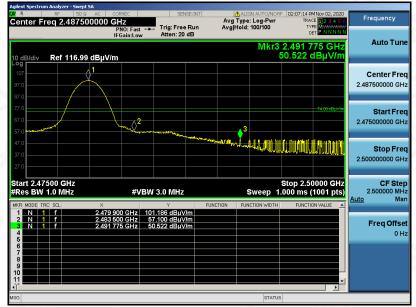
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#### Report No.: AGC02031201001FE03 Page 52 of 69

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

PK



AV



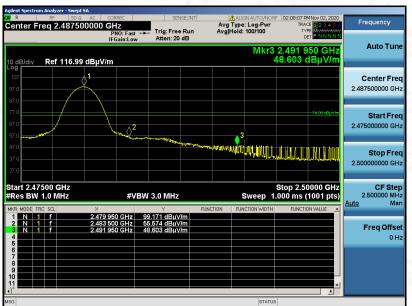
**RESULT: PASS** 

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#### Report No.: AGC02031201001FE03 Page 53 of 69

EUT	Bluetooth Module	Model Name	F-3320
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical



PK

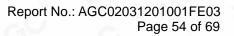
AV



#### **RESULT: PASS**

**Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The 8DPSK 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 HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=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  $\leq$  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

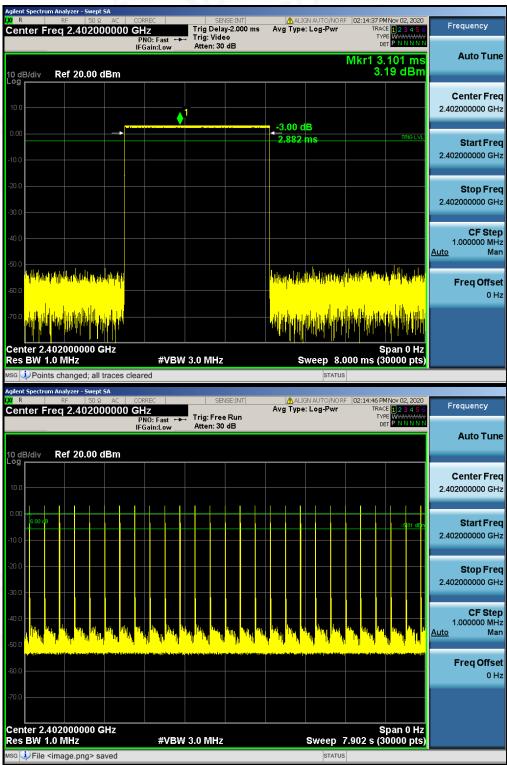
# **12.4. LIMITS AND MEASUREMENT RESULT**

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.882	27*4	311.256	400
Middle	2.882	26*4	299.728	400
High	2.882	27*4	311.256	400

Note: The 8DPSK modulation is the worst case and recorded in the report.

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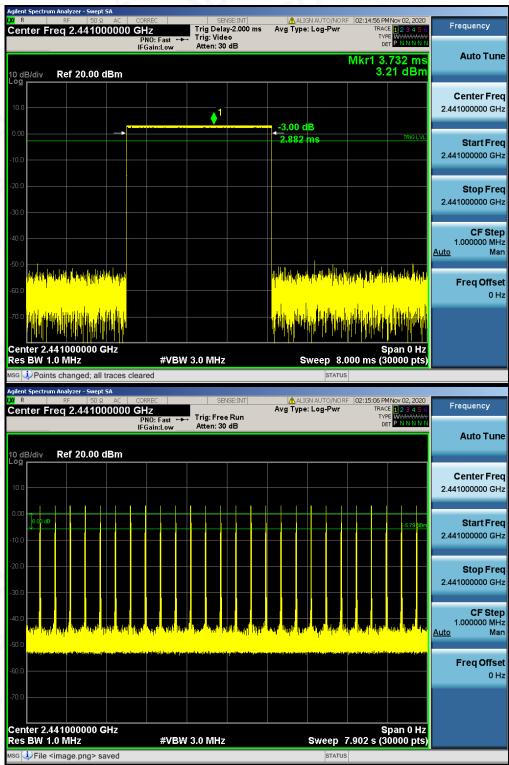




# TEST PLOT OF LOW CHANNEL

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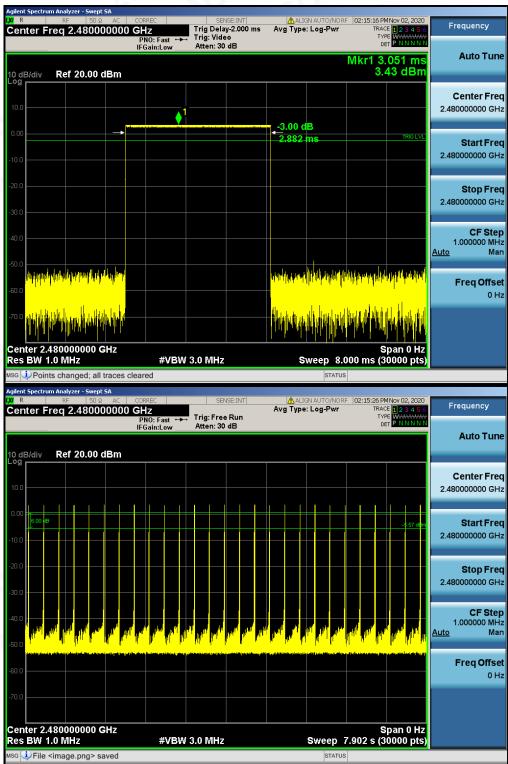




# TEST PLOT OF MIDDLE CHANNEL

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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	LIMIT	RESULT	
	MHz		Dava	
CH38-CH39	0.993	>= 2/3 20 dB BW	Pass	

#### 02:18:20 PM Nov 02, 202 Marker Marker 2 2.440973973974 GHz Avg Type: Log-Pw Avg|Hold: 100/100 Trig: Free Run Atten: 30 dB PNO: Wide IFGain:Lov Select Marker Mkr2 2.440 974 0.468 dBm Ref 20.00 dBm Normal Delta **Fixed** Center 2.441000 GHz #Res BW 30 kHz Span 4.000 MHz Sweep 4.262 ms (1000 pts) #VBW 100 kHz Off 2.439 981 GHz 2.440 974 GHz 0.541 dBm 0.468 dBm **Properties** More 1 of 2

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

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 E-mail: agc@agc-cert.com

## TEST PLOT FOR FREQUENCY SEPARATION

# 14. FCC LINE CONDUCTED EMISSION TEST

# 14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

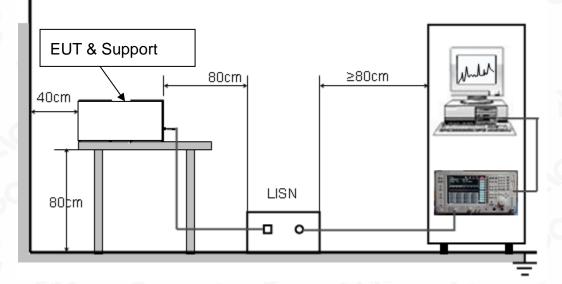
Francisco	Maximum RF Line Voltage			
Frequency	Q.P. (dBµV)	Average (dBµV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

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

- 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

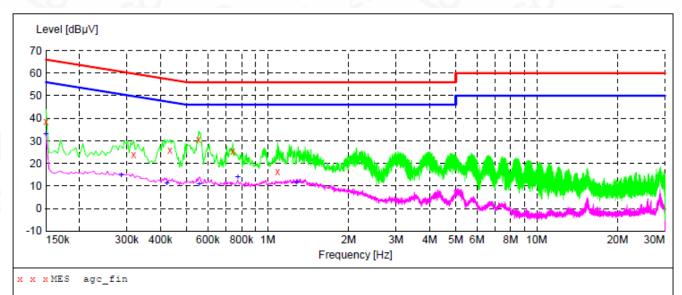
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used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





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

2020/11/2 10:3	39					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	38.40	11.3	66	27.6	QP	L1
0.318000	23.90	11.3	60	35.9	QP	ь1
0.434000	25.80	11.3	57	31.4	QP	ь1
0.554000	30.40	11.3	56	25.6	QP	L1
0.742000	25.60	11.3	56	30.4	QP	ь1
1.090000	16.50	11.3	56	39.5	QP	ь1

#### MEASUREMENT RESULT: "agc fin2"

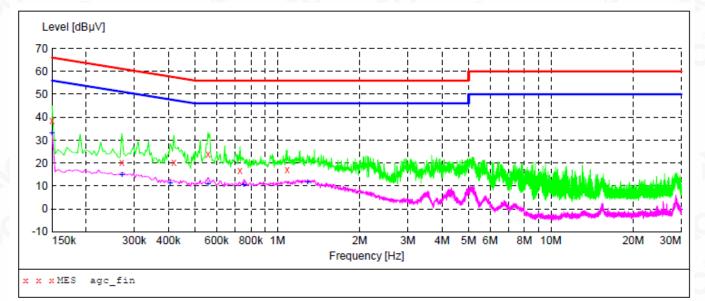
2020/11/2 10	:38					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	33.00	11.3	56	23.0	AV	ь1
0.286000	14.70	11.3	51	35.9	AV	ь1
0.422000	11.10	11.3	47	36.3	AV	L1
0.558000	10.60	11.3	46	35.4	AV	ь1
0.774000	14.00	11.3	46	32.0	AV	L1
1.286000	11.50	11.3	46	34.5	AV	ь1

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#### Report No.: AGC02031201001FE03 Page 63 of 69

Line Conducted Emission Test Line 2-N



## MEASUREMENT RESULT: "agc\_fin"

2020/11/2 10:43

Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000 0.270000 0.418000	38.60 20.40 20.30	11.3 11.3 11.3	66 61 58	27.4 40.7 37.2	QP QP	N N N
0.558000 0.730000 1.086000	24.00 16.80 17.10	11.3 11.3 11.3	56 56 56	32.0 39.2 38.9	QP QP QP	N N N

#### MEASUREMENT RESULT: "agc fin2"

2020/11/2 10:43								
-	-	level Transd dBµV dB	Limit dBµV	Margin dB	Detector	Line		
0.15000	32.90	2.90 11.3	56	23.1	AV	N		
0.27000	14.80	4.80 11.3	51	36.3	AV	N		
0.40600	11.20	1.20 11.3	48	36.5	AV	N		
0.55800	10.70	.0.70 11.3	46	35.3	AV	N		
0.75400	10.30	.0.30 11.3	46	35.7	AV	N		
1.29000	11.50	1.50 11.3	46	34.5	AV	Ν		

## **RESULT: PASS**

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Report No.: AGC02031201001FE03 Page 64 of 69

# APPENDIX A: PHOTOGRAPHS OF TEST SETUP RADIATED EMISSION TEST SETUP BELOW 1GHz



RADIATED EMISSION TEST SETUP ABOVE 1GHz



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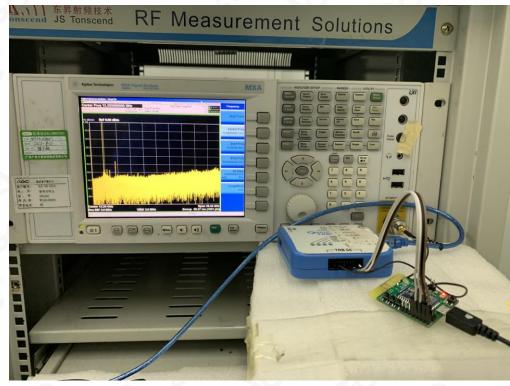


Report No.: AGC02031201001FE03 Page 65 of 69



CONDUCTED EMISSION TEST SETUP

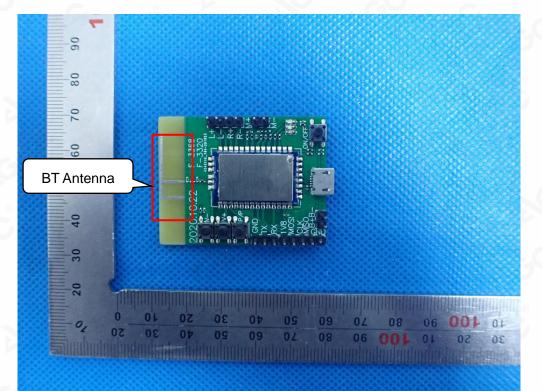
CONDUCTED TEST SETUP



Compliancest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Perton Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection he test results Sf the test report.

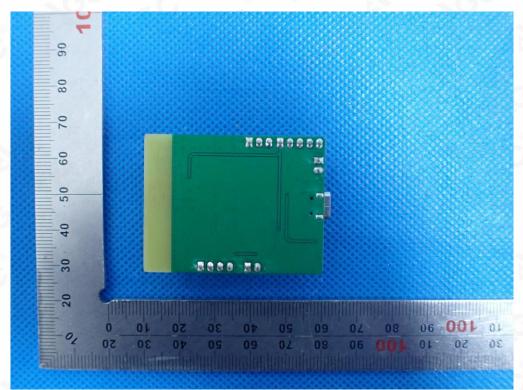


Report No.: AGC02031201001FE03 Page 66 of 69



# APPENDIX B: PHOTOGRAPHS OF EUT EXTERNAL VIEW-1 OF EUT

EXTERNAL VIEW-2 OF EUT

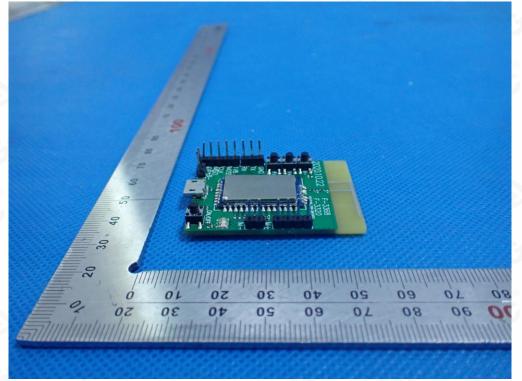


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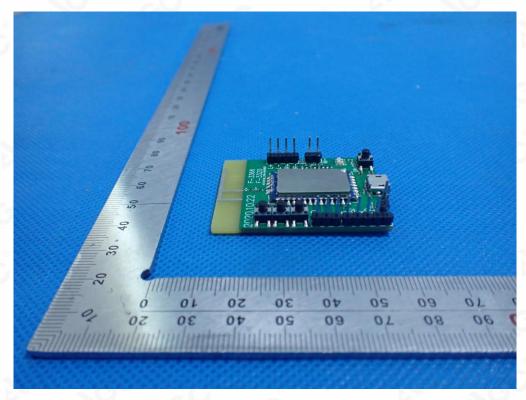


Report No.: AGC02031201001FE03 Page 67 of 69

## **EXTERNAL VIEW-3 OF EUT**



# **EXTERNAL VIEW-4 OF EUT**

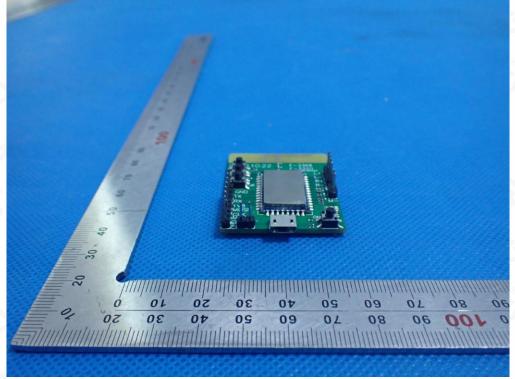


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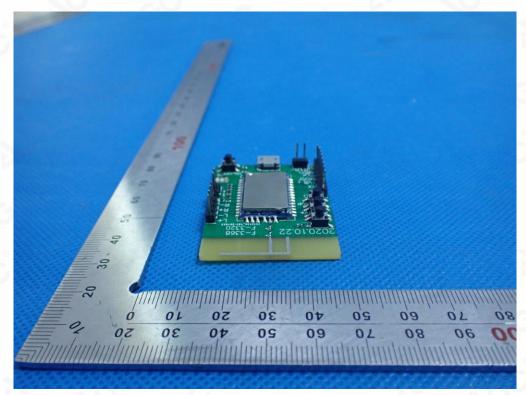


Report No.: AGC02031201001FE03 Page 68 of 69

#### EXTERNAL VIEW-5 OF EUT



EXTERNAL VIEW-6 OF EUT

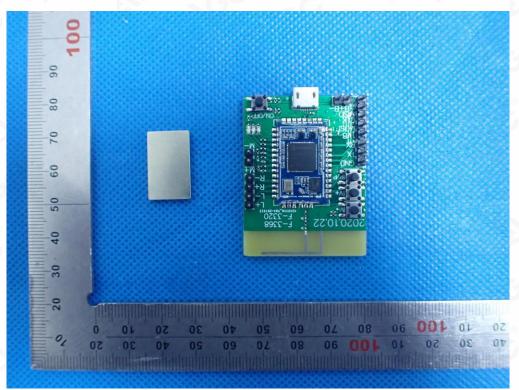


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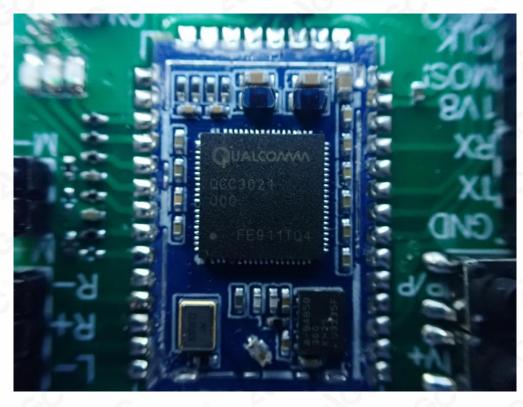


Report No.: AGC02031201001FE03 Page 69 of 69

#### **INTERNAL VIEW-1 OF EUT**



**INTERNAL VIEW-2 OF EUT** 



# ----END OF REPORT----

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#### Conditions of Issuance of Test Reports

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

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

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

4. 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.

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

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

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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