



		Analyzer - Swe											
Center F	RF	50 Ω		RREC	SEI	NSE:INT	Ava	ALIG	in auto		M Jan 29, 202		Frequency
Genter		13.7500	P	NO: Fast Gain:Low	Atten: 30			Hold: 10		TYP		₩	
10 dB/div	Rei	f 20.00 c	dBm						Mkr	1 24.28 -44.9	0 0 GH 35 dBn	2 N	Auto Tune
Log 10.0 0.00 -10.0											-2.42 dB	"	Center Freq 13.750000000 GHz
-20.0											^1		<b>Start Freq</b> 2.50000000 GHz
-50.0 -60.0 <b>(1911)</b> -70.0		an tha Minister and a second			e transferencie a se de la se se de la se de la se de la se se de la se								<b>Stop Freq</b> 25.00000000 GHz
Start 2.5 #Res BW	100	kHz		#VI	300 kHz					2.152 s (3		)	<b>CF Step</b> 2.25000000 GHz Auto Man
MKR MODE T 1 N 2 3 4 5 6 6 7 7 8 9 9 9 10 11 4 1 4 1 4 1 5 1 6 1 7 1 8 1 9 1 10 1 11 1 10 10 1 10 1 10 10 1 10 1 1	RC SCL 1 f 		× 24.280	0 GHz	Y -44.935 dB		INCTION	FUNCTIO	DN WIDTH	FUNCTION	DN VALUE		<b>Freq Offset</b> 0 Hz
MSG									STATUS				

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

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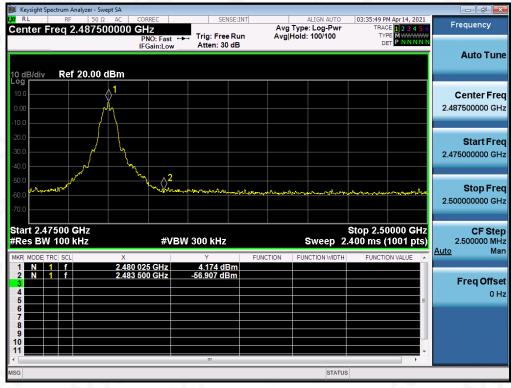
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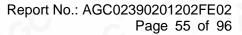
#### GFSK MODULATION IN LOW CHANNEL 0 PM Apr 14, 202 Frequency Center Freq 2.398500000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 Trig: Free Run Atten: 30 dB TYPE DE1 PNO: Fast IFGain:Low Auto Tune Mkr3 2.398 262 GHz -50.136 dBm Ref 20.00 dBm **Center Freq** 2.398500000 GHz Start Fred 2.39000000 GHz Stop Freq 2.407000000 GHz Start 2.390000 GHz #Res BW 100 kHz Stop 2.407000 GHz Sweep 1.667 ms (1001 pts) **CF** Step #VBW 300 kHz 1.700000 MHz <u>Auto</u> Mar 4.422 dBm -44.877 dBm -50.136 dBm **Freq Offset** 0 Hz

# TEST RESULT FOR BAND EDGE 125 KHz

#### **GFSK MODULATION IN HIGH CHANNEL**



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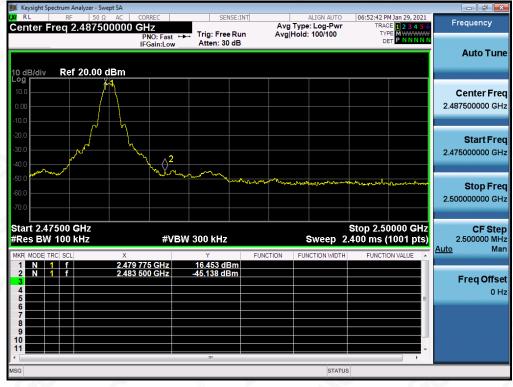






## 500 KHz GFSK MODULATION IN LOW CHANNEL

#### GFSK MODULATION IN HIGH CHANNEL



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### **1M** GFSK MODULATION IN LOW CHANNEL

### GFSK MODULATION IN HIGH CHANNEL



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### **2M** GFSK MODULATION IN LOW CHANNEL

#### GFSK MODULATION IN HIGH CHANNEL



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

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

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

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

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

Refer to Section 7.2.

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

Refer to Section 6.

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

## 125KHz

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.669	8	Pass
Middle Channel	-1.826	8	Pass
High Channel	-1.653	8	Pass

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



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### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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#### 500 KHz

Channel No.	Channel No. PSD (dBm/3kHz)		Result	
Low Channel	4.773	8	Pass	
Middle Channel	7.961	8	Pass	
High Channel	7.838	8	Pass	

#### Frequency 2.402000000 GH Avg Type: Log-Pwi Avg|Hold: 100/100 Cente Trig: Free Run Atten: 30 dB DF IFGain:Lov Auto Tune Mkr1 2.402 003 2 GHz 4.773 dBn 10 dB/div Ref 20.00 dBm **Center Freq** 2.402000000 GHz Start Freq MA 2.401469557 GHz Stop Freq 2.402530443 GHz CF Step 106.089 kHz <u>Auto</u> Ма Freq Offset 0 Hz Center 2.4020000 GHz #Res BW 3.0 kHz Span 1.061 MHz 111.9 ms (1001 pts) #VBW 10 kHz Sweep

### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

J Keysight Spectrum Analyzer - Swept SA	CORREC SENSE:INT	ALIGN AUTO	06:52:19 PM Jan 29, 2021	
Center Freq 2.480000000 (		Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
10 dB/div Ref 20.00 dBm	IFGain:Low Atten, oo ub	Mkr1 2	.479 881 0 GHz 7.838 dBm	Auto Tun
10.0	1 			<b>Center Fre</b> 2.480000000 GH
0.00	and for a straight of a shift of a straight of a straight of a shift of a straight o	undur harden hat to	with highwithulas	<b>Start Fre</b> 2.479491506 GH
-20.0				<b>Stop Fre</b> 2.480508494 GH
-40.0				CF Ste 101.699 k⊦ <u>Auto</u> Ma
-60.0				Freq Offs 0 ⊦
-70.0 Center 2,4800000 GHz			Span 1.017 MHz	
#Res BW 3.0 kHz	#VBW 10 kHz	Sweep 1	07.3 ms (1001 pts)	

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

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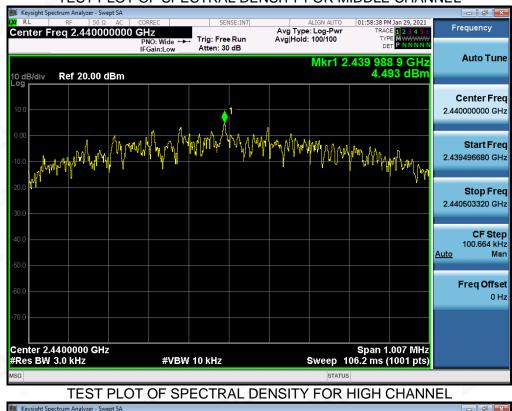
1 M

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2.459	8	Pass
Middle Channel	4.493	8	Pass
High Channel	3.838	8	Pass

#### Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 2.402000000 GH Cente Trig: Free Run Atten: 30 dB IFGain:Lov Auto Tune Mkr1 2.402 044 8 GHz 2.459 dBm 10 dB/div Ref 20.00 dBm **Center Freq** 2.402000000 GHz rw Start Freq 2.401513208 GHz Stop Freq 2.402486792 GHz CF Step 97.358 kHz <u>Auto</u> Ma Freq Offset 0 Hz Center 2.4020000 GHz #Res BW 3.0 kHz Span 973.6 kHz Sweep 102.7 ms (1001 pts) #VBW 10 kHz

### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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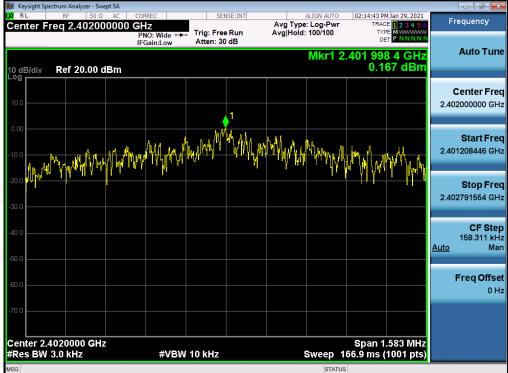
### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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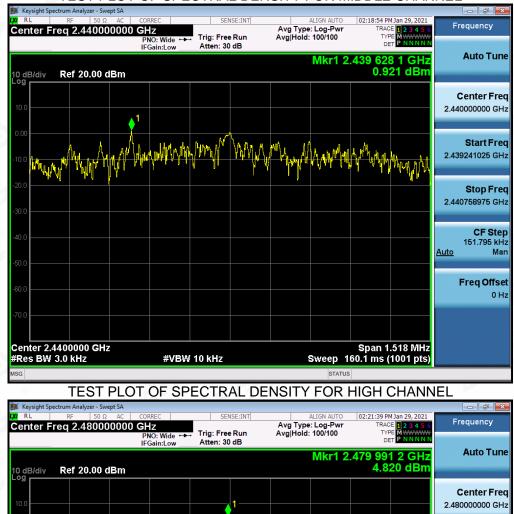


<u>2M</u>			
Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	0.167	8	Pass
Middle Channel	0.921	8	Pass
High Channel	4.820	8	Pass

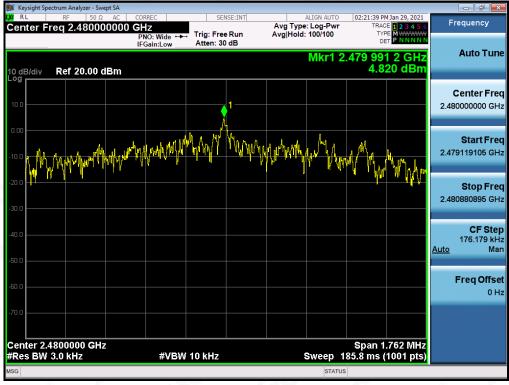


### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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### **11. RADIATED EMISSION**

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

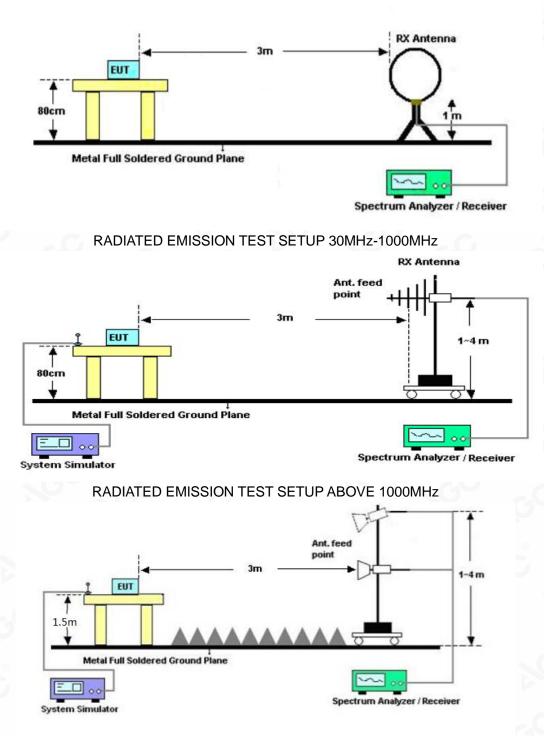
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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### 11.2. TEST SETUP



Radiated Emission Test-Setup Frequency Below 30MHz

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

15.209 Limit in the below table has to be followed

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

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

### 11.4. TEST RESULT

## **RADIATED EMISSION BELOW 30MHz**

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

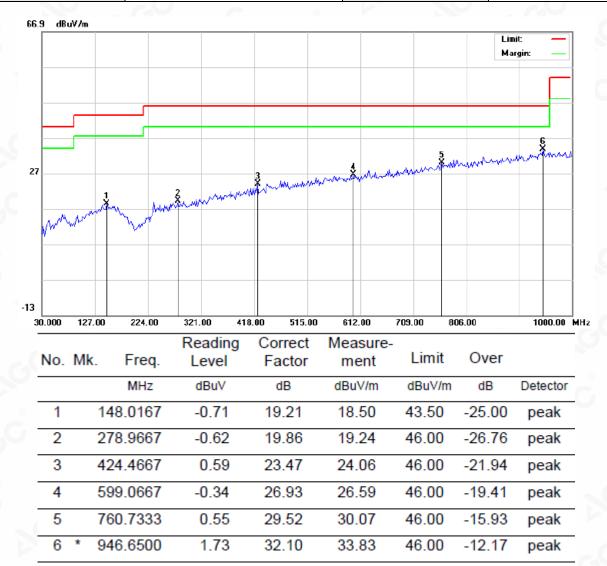
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### Report No.: AGC02390201202FE02 Page 69 of 96

### RADIATED EMISSION BELOW 1GHZ

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



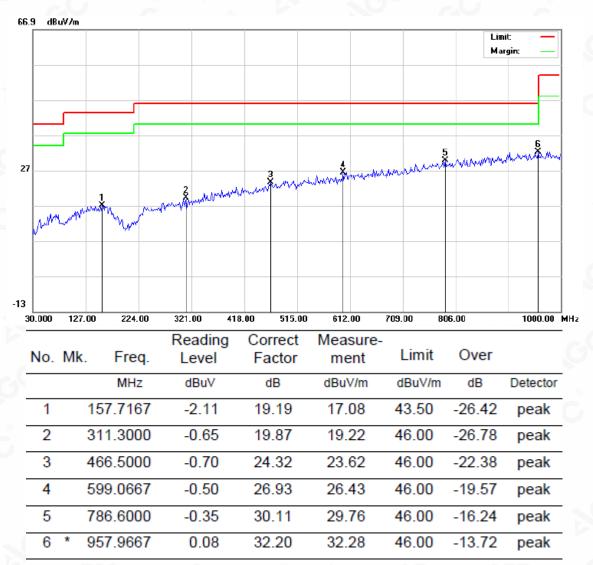
## **RESULT: PASS**

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#### Report No.: AGC02390201202FE02 Page 70 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



### RESULT: PASS Note:

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

2. All test modes of rate had been tested. The mode 1 at 125KHz is the worst case and recorded in the report.

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### Report No.: AGC02390201202FE02 Page 71 of 96

## **RADIATED EMISSION ABOVE 1GHZ**

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P	
Temperature	21.8° C	Relative Humidity	58%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Horizontal	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	45.52	0.08	45.6	74	-28.4	peak
4804.000	36.18	0.08	36.26	54 💿	-17.74	AVG
7206.000	41.57	2.21	43.78	74	-30.22	peak
7206.000	32.94	2.21	35.15	54	-18.85	AVG
						-0
8				0		

Remark:

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

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P	
Temperature	21.8°C	Relative Humidity	58%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	45.67	0.08	45.75	74	-28.25	peak
4804.000	36.54	0.08	36.62	54	-17.38	AVG
7206.000	40.54	2.21	42.75	74	-31.25	peak
7206.000	31.58	2.21	33.79	54	-20.21	AVG
0			d d			
	0				0	
emark:		8			- Ci -	C

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

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### Report No.: AGC02390201202FE02 Page 72 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	46.28	0.14	46.42	74	-27.58	peak
4880.000	36.71	0.14	36.85	54	-17.15	AVG
7320.000	41.03	2.36	43.39	74	-30.61	peak
7320.000	30.46	2.36	32.82	54	-21.18	AVG
200		0		- 60	0	6
Remark:		G .	8			-6
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			0

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
46.59	0.14	46.73	74	-27.27	peak
35.27	0.14	35.41	54	-18.59	AVG
41.23	2.36	43.59	74	-30.41	peak
31.57	2.36	33.93	54	-20.07	AVG
			0		
©				G	0
-	35.27 41.23	35.27         0.14           41.23         2.36	35.27         0.14         35.41           41.23         2.36         43.59	35.27         0.14         35.41         54           41.23         2.36         43.59         74	35.27         0.14         35.41         54         -18.59           41.23         2.36         43.59         74         -30.41

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

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### Report No.: AGC02390201202FE02 Page 73 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.22	0.22	45.44	74	-28.56	peak
4960.000	35.84	0.22	36.06	54	-17.94	AVG
7440.000	39.61	2.64	42.25	74	-31.75	peak
7440.000	30.54	2.64	33.18	54	-20.82	AVG
8				ß		
	8			- 6		

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.59	0.22	44.81	74	-29.19	peak
35.37	0.22	35.59	54 💿	-18.41	AVG
38.51	2.64	41.15	74	-32.85	peak
29.08	2.64	31.72	54	-22.28	AVG
	200	®			GC
-	(dBµV) 44.59 35.37 38.51 29.08	(dBµV)         (dB)           44.59         0.22           35.37         0.22           38.51         2.64	(dBµV)         (dB)         (dBµV/m)           44.59         0.22         44.81           35.37         0.22         35.59           38.51         2.64         41.15           29.08         2.64         31.72	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)           44.59         0.22         44.81         74           35.37         0.22         35.59         54           38.51         2.64         41.15         74           29.08         2.64         31.72         54	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)         (dB)           44.59         0.22         44.81         74         -29.19           35.37         0.22         35.59         54         -18.41           38.51         2.64         41.15         74         -32.85           29.08         2.64         31.72         54         -22.28

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.

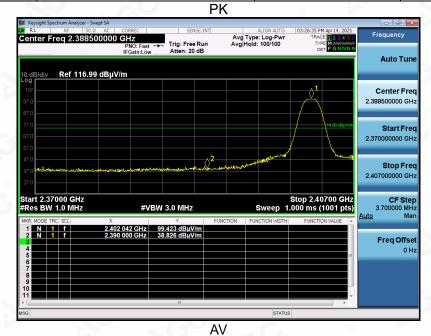
All test modes of rate had been tested. The mode 1 at 125KHz is the worst case and recorded in the report.

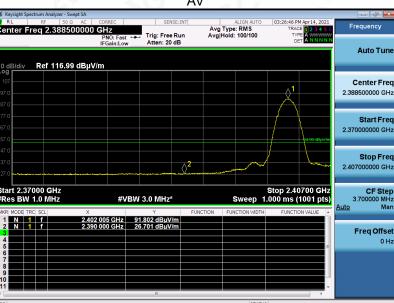
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### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

125 KHz		G <sup>°</sup>	
EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





**RESULT: PASS** 

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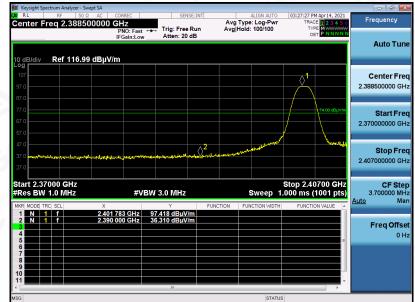
Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

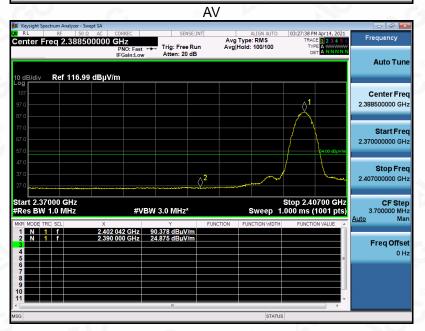


### Report No.: AGC02390201202FE02 Page 75 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK





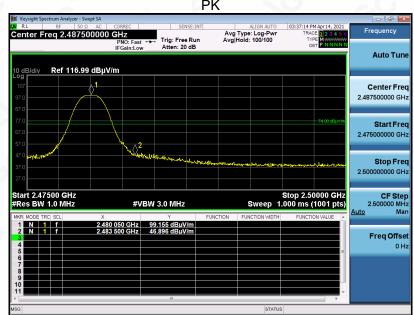
**RESULT: PASS** 

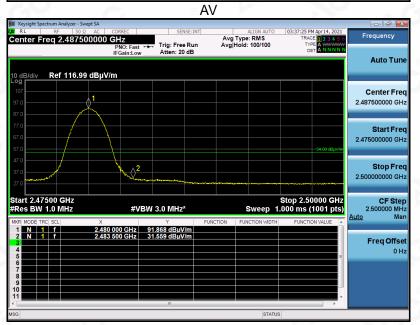
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### Report No.: AGC02390201202FE02 Page 76 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





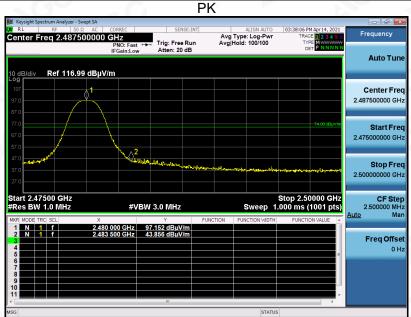
**RESULT: PASS** 

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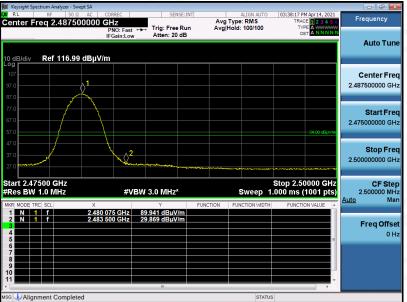


### Report No.: AGC02390201202FE02 Page 77 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



AV



### **RESULT: PASS**

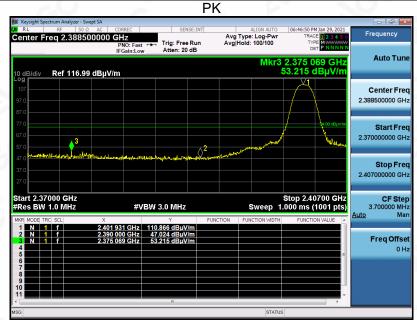
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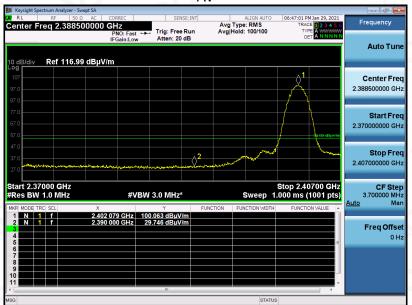
### Report No.: AGC02390201202FE02 Page 78 of 96

#### 500 KHz

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



AV



**RESULT: PASS** 

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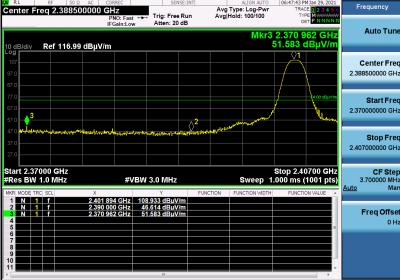


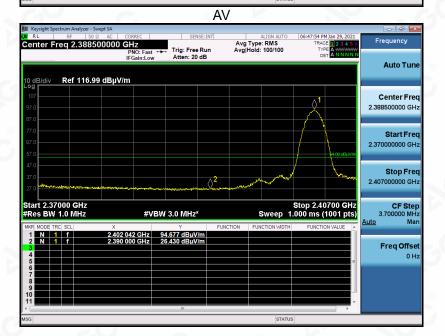
### Report No.: AGC02390201202FE02 Page 79 of 96

Frequency

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
D/			

PK Avg Type: Log-Pw Avg Hold: 100/100 Trig: Free Run Atten: 20 dB





**RESULT: PASS** 

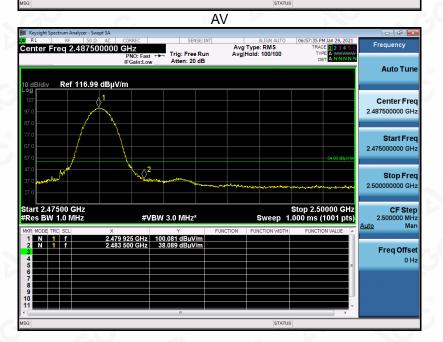
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#### Report No.: AGC02390201202FE02 Page 80 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
РК			

enter Freq 2.487500000 GHz Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 Trig: Free Run Atten: 20 dB Auto Tun Ref 116.99 dBµV/m Center Fred 2.487500000 GH Start Free 2.475000000 GHz Stop Free 2.50000000 GH Start 2.47500 GHz Res BW 1.0 MHz Stop 2.50000 GHz 1.000 ms (1001 pts) CF Step 2.500000 MH #VBW 3.0 MHz Sweep 2.480 275 GHz 111.404 dBµV/m 2.483 500 GHz 59.507 dBµV/m Freq Offse



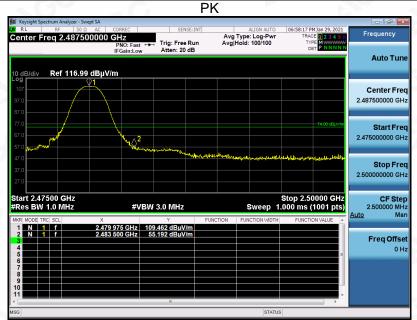
**RESULT: PASS** 

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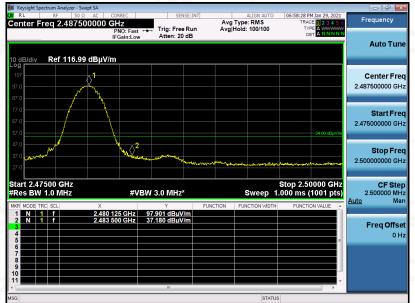


### Report No.: AGC02390201202FE02 Page 81 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



AV



### **RESULT: PASS**

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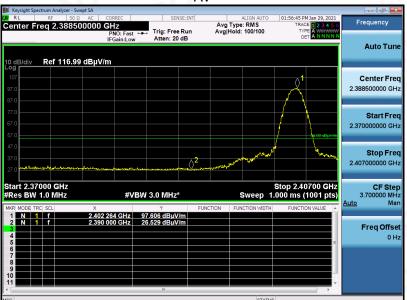
### Report No.: AGC02390201202FE02 Page 82 of 96

#### 1M

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



AV



## **RESULT: PASS**

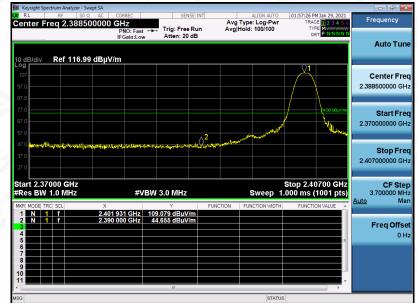
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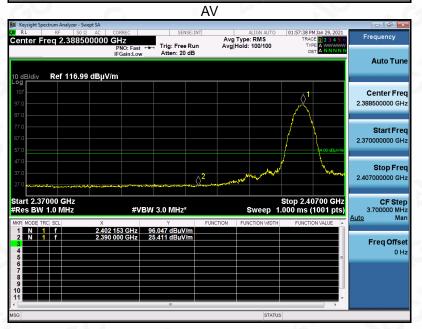


### Report No.: AGC02390201202FE02 Page 83 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
D/			

PK





**RESULT: PASS** 

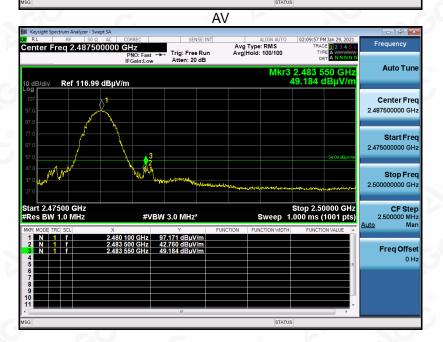
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### Report No.: AGC02390201202FE02 Page 84 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8° C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	PK		

enter Freq 2.487500000 GHz Frequency Avg Type: Log-Pw Avg Hold: 100/100 Trig: Free Run Atten: 20 dB Auto Tun Mkr3 Ref 116.99 dBµV/m Center Fred 2.487500000 GHz Start Free 2.475000000 GHz Stop Free 2.50000000 GH Stop 2.50000 GHz 1.000 ms (1001 pts) rt 2.47500 GHz s BW 1.0 MHz CF Step 2.500000 MH #VBW 3.0 MHz Sweep 2.479 975 GHz 112.632 dBµV 2.483 500 GHz 69.293 dBµV 2.483 750 GHz 70.058 dBµV Freq Offse



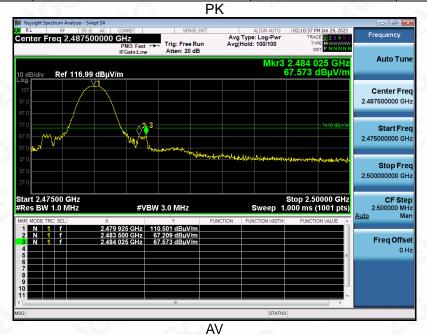
**RESULT: PASS** 

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Report No.: AGC02390201202FE02 Page 85 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



ALIGN AUT Avg Type: RMS Avg|Hold: 100/100 Center Freq 2.487500000 GHz Frequency Trig: Free Run Atten: 20 dB Auto Tune Mkr3 2.483 950 G 45.281 dBµ\ Ref 116.99 dBµV/m Center Fred 2.487500000 GH Start Fre 2.475000000 GH Stop Free 2.50000000 GH Stop 2.50000 GHz Sweep 1.000 ms (1001 pts) 2.47500 GHz CF Step 2.500000 MH #VBW 3.0 MHz\* ۹uto 2.480 07 2.483 50 2 483 95 39.715 dBu Freq Offset 0 H;

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#### 2M

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



AV



## **RESULT: PASS**

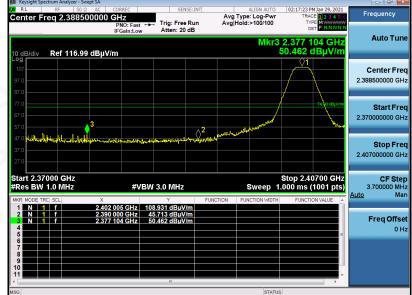
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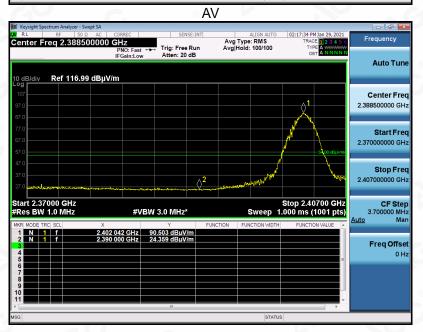


### Report No.: AGC02390201202FE02 Page 87 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
D/			

PK





**RESULT: PASS** 

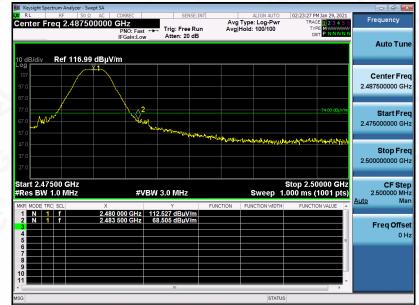
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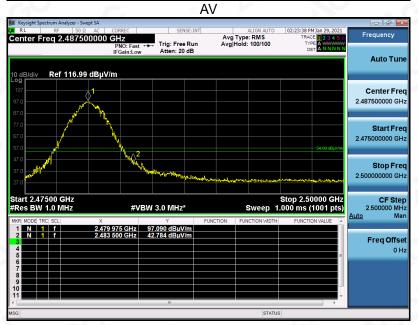


### Report No.: AGC02390201202FE02 Page 88 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK





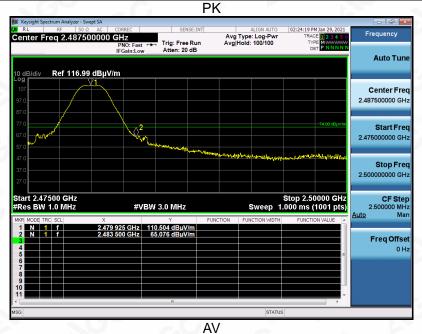
**RESULT: PASS** 

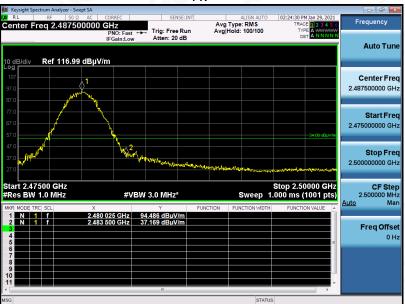
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Report No.: AGC02390201202FE02 Page 89 of 96

EUT	Multi-Protocol Wireless Module with PA	Model Name	BDE-RFM207P
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





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

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

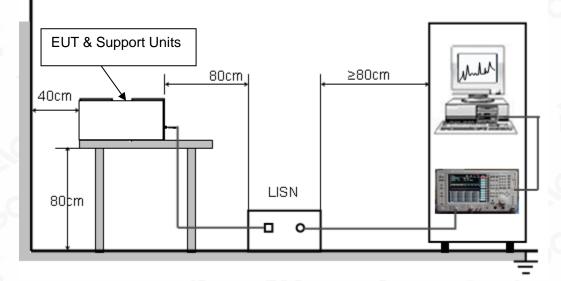
### **12.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

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

Note:

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

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand in spectral definition of the stand in the report is not permitted without the written authorization of AGE in 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 issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 3.3V power from PC which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

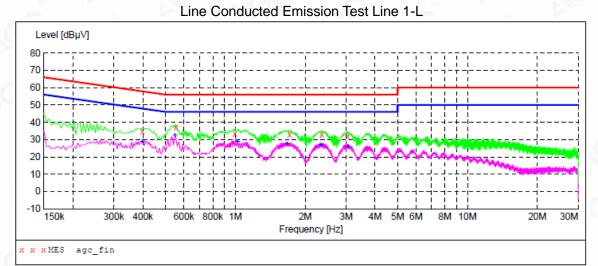
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

MEASUREMENT RESULT: "agc\_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.398000 0.554000 0.998000 1.714000 2.358000 3.062000	34.50 37.00 33.40 32.80 32.70 31.90	12.4 12.4 12.5 12.5 12.5	58 56 56 56 56	22.6 23.2	QP QP	L1 L1 L1 L1 L1 L1

### MEASUREMENT RESULT: "agc fin2"

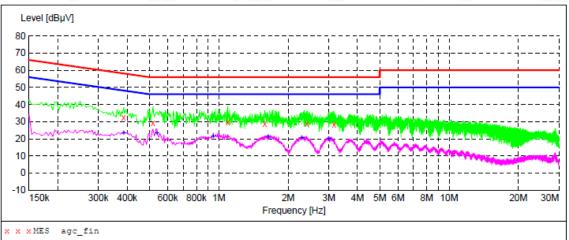
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.398000 0.550000 1.022000 1.670000 2.334000 3.058000	28.70 32.20 28.60 27.30 26.90 26.10	12.4 12.4 12.4 12.5 12.5 12.5	48 46 46 46 46		AV AV AV AV AV AV	L1 L1 L1 L1 L1 L1

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Line Conducted Emission Test Line 2-N



#### MEASUREMENT RESULT: "agc fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.386000	32.50	12.4	58	25.6	QP	N
0.518000	29.40	12.4	56	26.6	QP	N
1.094000	29.80	12.4	56	26.2	QP	N
1.586000	28.70	12.5	56	27.3	QP	N
2.414000	28.80	12.5	56	27.2	QP	N
3.162000	28.20	12.5	56	27.8	QP	N

#### MEASUREMENT RESULT: "agc fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.386000	23.20	12.4	48	24.9	AV	N
0.538000	23.30	12.4	46	22.7	AV	N
0.946000	21.20	12.4	46	24.8	AV	N
1.638000	21.30	12.5	46	24.7	AV	N
2.294000	20.60	12.5	46	25.4	AV	N
2.998000	20.00	12.5	46	26.0	AV	N

#### **RESULT: PASS**

Note: All test modes of rate had been tested. The mode 1 at 125KHz is the worst case and recorded in the 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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