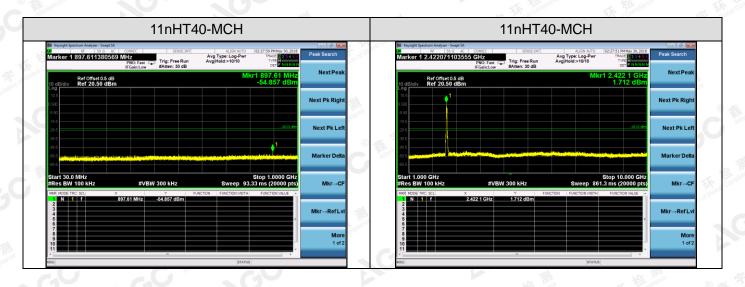
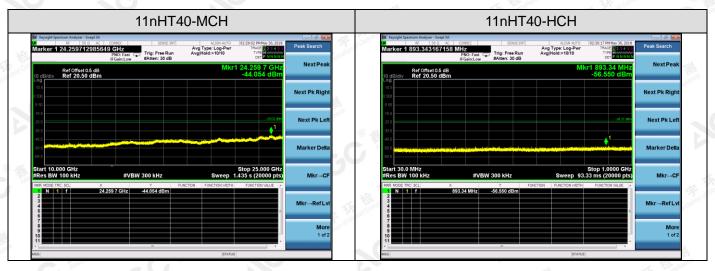
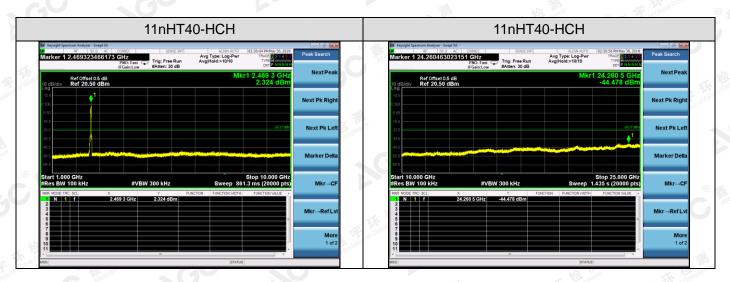


The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true www.ago.gent.com.









The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true www.ago.gent.com.



Page 28 of 42

# 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 SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD in the KDB 558074 item 10.3 was used in this testing.

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

Refer To Section 8.2.

# **10.3 MEASUREMENT EQUIPMENT USED**

Refer To Section 6.

The results spowfil this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

Attestation of Global Compliance



Page 29 of 42

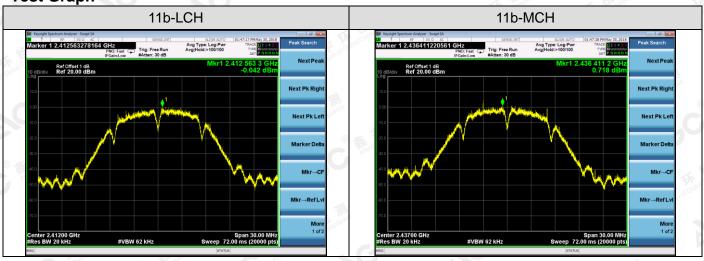
# **10.4 LIMITS AND MEASUREMENT RESULT**

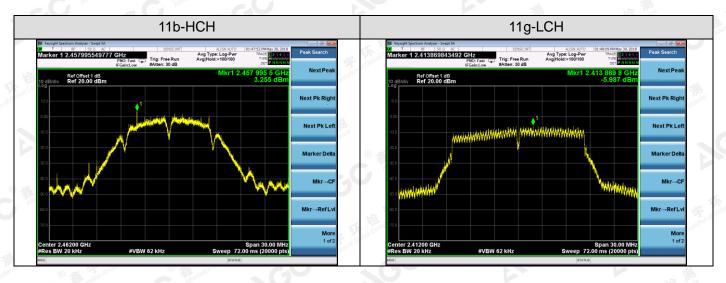
Mode	Channel	PSD [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
K Kil	LCH	-0.042	8	PASS
11b	MCH	0.718	8	PASS
	HCH	3.255	8	PASS
杨柳	LCH	-5.987	Fig. 1, and or old and 8	PASS
11g	MCH	-3.341	8	PASS
	HCH	-1.436	8	PASS
100	LCH	-5.229	8 The Company	PASS
11nHT20	MCH	-2.331	8	PASS
	HCH	-2.641	8	PASS
66	LCH	-5.175	8	PASS
11NHT40	MCH	-5.946	8	PASS
	HCH	-6.931	8 Airesta	PASS

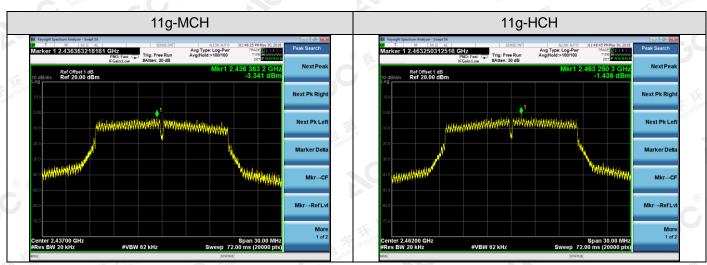
The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.cett.com.



**Test Graph** 

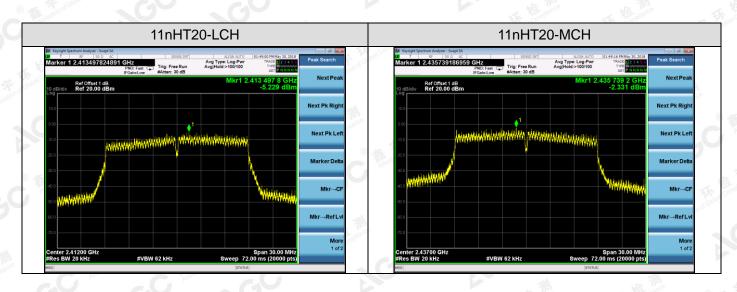


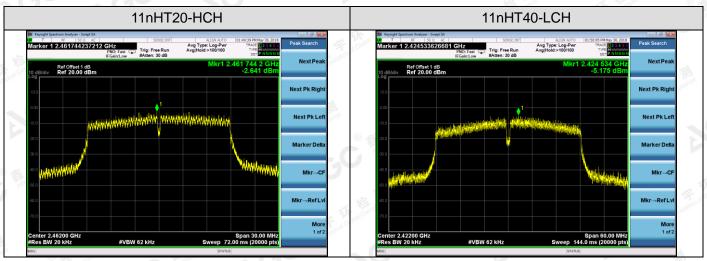


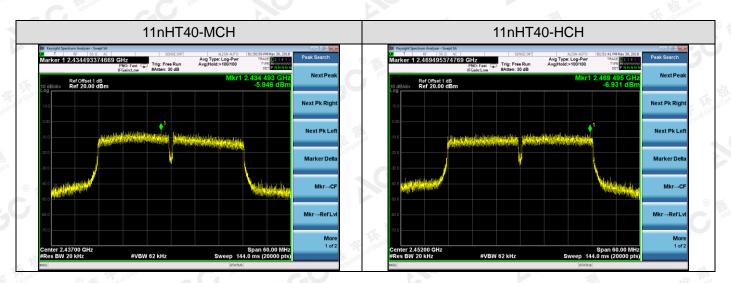


The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.









The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Page 32 of 42

# 11. RADIATED EMISSION

#### 11.1. MEASUREMENT PROCEDURE

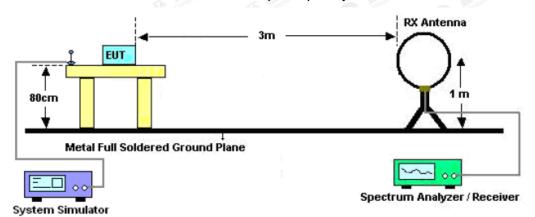
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 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 VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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.

The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by GC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

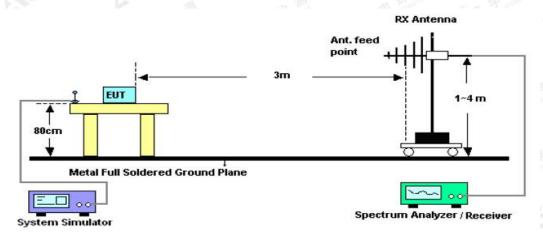


#### 11.2. TEST SETUP

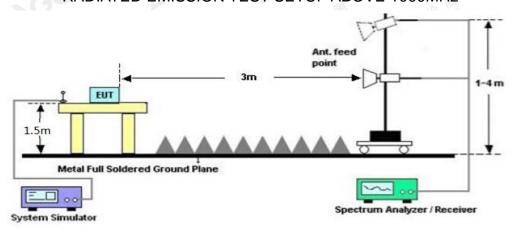
# Radiated Emission Test-Setup Frequency Below 30MHz



# RADIATED EMISSION TEST SETUP 30MHz-1000MHz



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Page 34 of 42

# 11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) 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

The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.



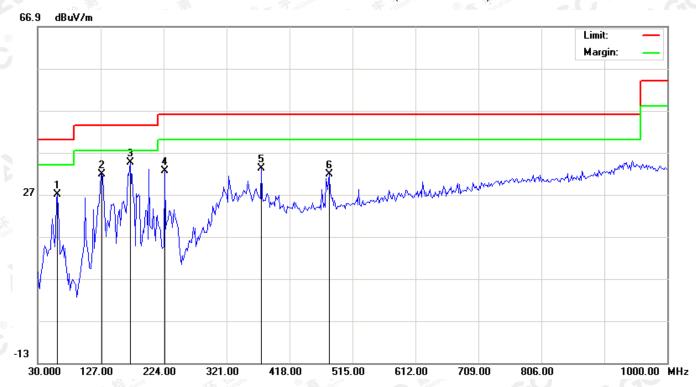
#### 11.4. TEST RESULT

# **RADIATED EMISSION BELOW 30MHZ**

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

# **RADIATED EMISSION BELOW 1GHZ**

RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



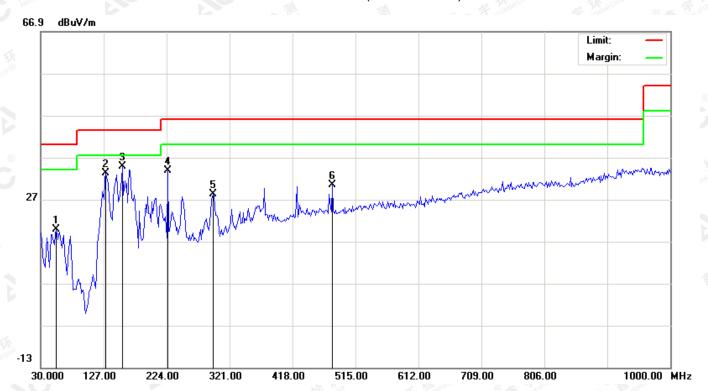
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		60.7167	22.84	4.20	27.04	40.00	-12.96	peak			
2		128.6167	18.94	12.88	31.82	43.50	-11.68	peak			
3	*	172.2667	20.86	13.78	34.64	43.50	-8.86	peak			
4		225.6167	20.23	12.39	32.62	46.00	-13.38	peak			
5		374.3500	11.32	21.90	33.22	46.00	-12.78	peak			
6		479.4333	7.90	23.91	31.81	46.00	-14.19	peak			

RESULT: PASS

The results spowfill this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



# RADIATED EMISSION TEST- (30MHZ-1GHZ) -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		54.2500	8.63	11.20	19.83	40.00	-20.17	peak			
2		130.2333	19.08	14.13	33.21	43.50	-10.29	peak			
3	*	156.1000	16.45	18.30	34.75	43.50	-8.75	peak			
4		225.6167	19.21	14.51	33.72	46.00	-12.28	peak			
5		295.1333	9.99	18.26	28.25	46.00	-17.75	peak			
6		479.4333	6.44	23.91	30.35	46.00	-15.65	peak			

# **RESULT: PASS**

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

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

The results spowfil this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.

Page 37 of 42

# **RADIATED EMISSION ABOVE 1GHZ**

Frequency	Emission Level	Limits	Margin	Detector	_
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
Conn. F. Conn	CC C	TX 11b 2412MI	-lz		111
4824	49.55	74	-24.45	Pk	Horizontal
4824	35.1	54	-18.9	AV	Horizontal
7236	50.25	74	-23.75	pk	Horizontal
7236	34.91	54	-19.09	AV	Horizontal
4824	50.25	74	-23.75	Pk	Vertical
4824	34.74	54	-19.26	O AV	Vertical
7236	50.25	74	-23.75	Pk	Vertical
7236	39.45	54	-14.55	AV	Vertical
		TX 11b 2437Ml	-lz	The Compliance	E Global Compile
4874	48.56	74	-25.44	Pk	Horizontal
4874	32.15	54	-21.85	AV	Horizontal
7311	45.66	74	-28.34	Pk Pk	Horizontal
7311	35.46	54	-18.54	AV	Horizontal
4874	49.48	74	-24.52	Pk	Vertical
4874	40.15	54	-13.85	AV	Vertical
7311	48.88	74	-25.12	Pk	Vertical
7311	38.46	54	-15.54	AV	Vertical
1 10	The complaints	TX 11b 2462M	Hz Antonology		100°
4924	50.25	74	-23.75	Pk	Horizontal
4924	34.61	54	-19.39	AV	Horizontal
7386	48.56	74	-25.44	Pk	Horizontal
7386	39.15	54	-14.85	AV	Horizontal
4924	50.54	74	-23.46	Pk	Vertical
4924	38.47	54	-15.53	AV	Vertical
7386	49.55	74	-24.45	Pk	Vertical
7386	37.49	54	-16.51	AV	Vertical

**RESULT: PASS** 

Note:

1. Margin = Emission Level - Limit

2.1GHz-25GHz(All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report. No recording in the test report at least have 20dB margin).

The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Page 38 of 42

# 12. BAND EDGE EMISSION

# 12.1. MEASUREMENT PROCEDURE

1)Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

- 2)Conducted Emissions at the bang edge
  - a)The transmitter output was connected to the spectrum analyzer
  - b)Set RBW=100kHz,VBW=300kHz
  - c)Suitable frequency span including 100kHz bandwidth from band edge

#### 12.2. TEST SET-UP

Radiated same as 11.2

Conducted set up

EUT Spectrum analyzer cable

The results spowed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gott.com.



Page 39 of 42

# 12.3. RADIATED TEST RESULT

Frequency	Emission Level	Limits	Margin	Detector		
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
all Colora	- GO -	TX 11b	2412MHz			
2399.9	48.25	74	-25.75	pk	Horizontal	
2399.9	39.56	54	-14.44	AV	Horizontal	
2400	49.66	74	-24.34	pk	Horizontal	
2400	36.17	54	-17.83	AV	Horizontal	
2399.9	52.28	74	-21.72	pk , b	Vertical	
2399.9	37.16	54	-16.84	AV	Vertical	
2400	53.11	74	-20.89	pk	Vertical	
2400	37.16	54	-16.84	AV	Vertical	
		TX 11b	2462MHz	The Compliance	F Colobal Company	
2483.5	50.18	74	-23.82	pk	Horizontal	
2483.5	35.94	54	-18.06	AV	Horizontal	
2483.6	52.17	74	-21.83	pk pk	Horizontal	
2483.6	38.54	54	-15.46	AV	Horizontal	
2483.5	53.12	74	-20.88	pk	Vertical	
2483.5	37.59	54	-16.41	AV	Vertical	
2483.6	52.45	74	-21.55	pk	Vertical	
2483.6	38.11	54	-15.89	AV AV	Vertical	

**RESULT: PASS** 

Note: Scan with 11b,11g,11n, the worst case is 11b Mode

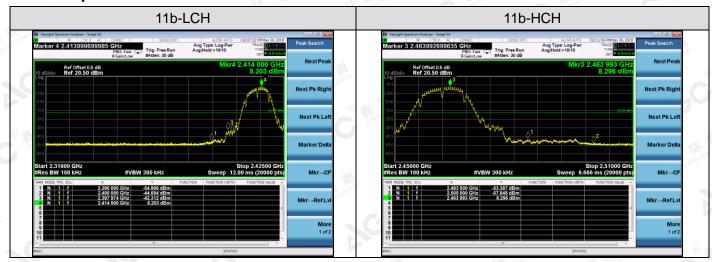
Margin= Emission Level -Limit.

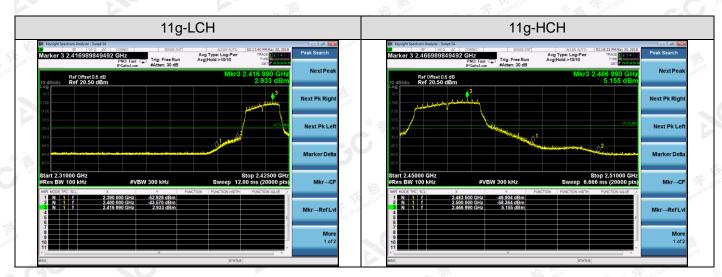
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 1000, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

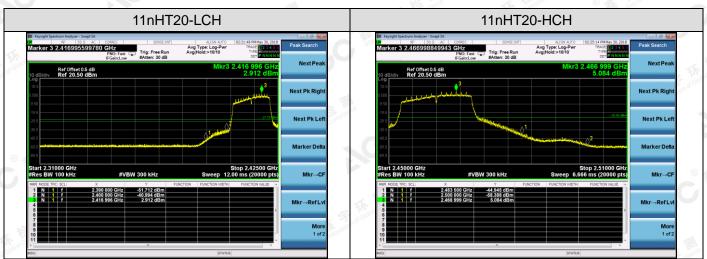


# 12.4. CONDUCTED TEST RESULT

# **Test Graph**

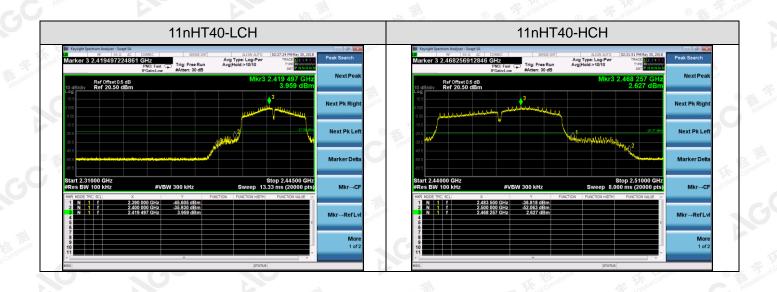






The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



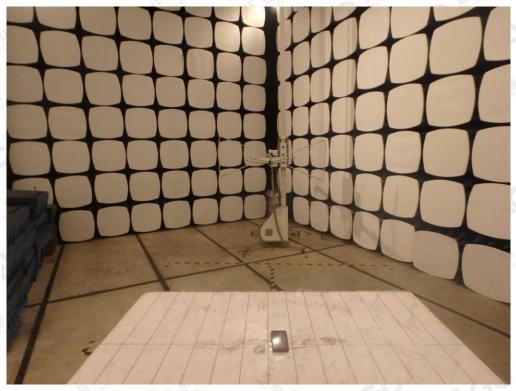


The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a type and the sample (s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a type of the sample (s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a type of the sample (s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission.



# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

RADIATED EMISSION TEST SETUP



RADIATED EMISSION ABOVE 1G TEST SETUP



----END OF REPORT----

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

Attestation of Global Compliance