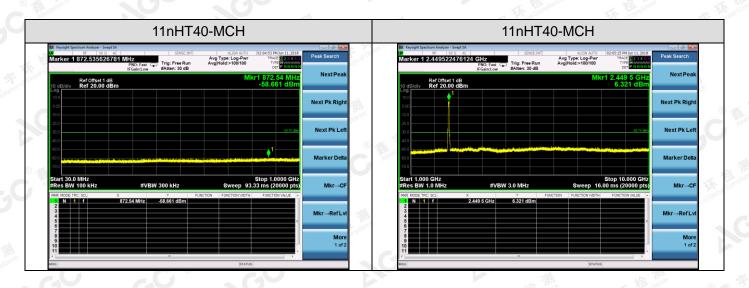
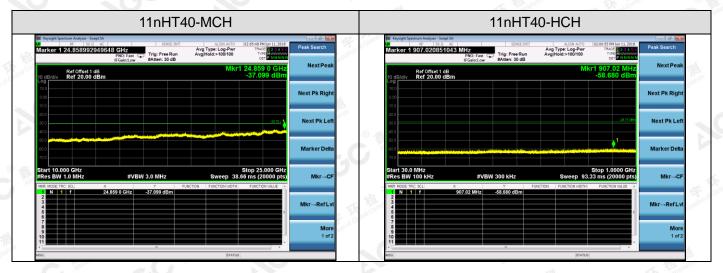
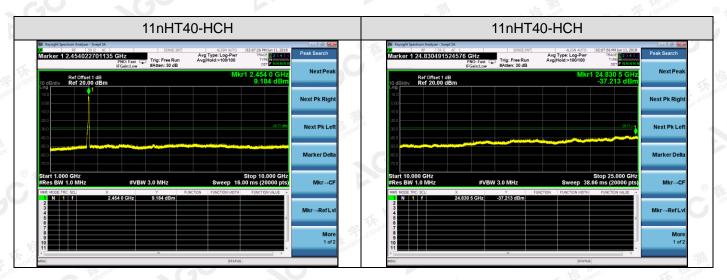


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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

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 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.

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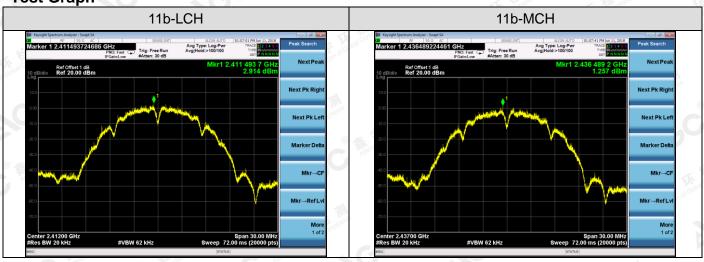
10.4 LIMITS AND MEASUREMENT RESULT

Mode	Channel	PSD [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
K KEL	LCH	2.914	8	PASS
11b	MCH	1.257	8	PASS
	HCH	2.886	8	PASS
海河 河	LCH	-3.554	Martin de Coord 8	PASS
11g	MCH	-4.986	8	PASS
	HCH	-2.632	8 1	PASS
	LCH	-3.532	and are 8 If the Complete	PASS
11nHT20	MCH	-4.397	8	PASS
® Atalion of	HCH	-2.625	8	PASS
GC "	LCH	-7.801	8	PASS
11NHT40	MCH	-7.480	# Th. 10 8	PASS
	HCH	-4.847	8 Fileston	PASS

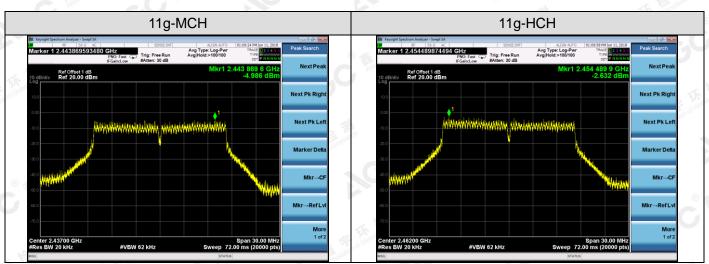
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Test Graph

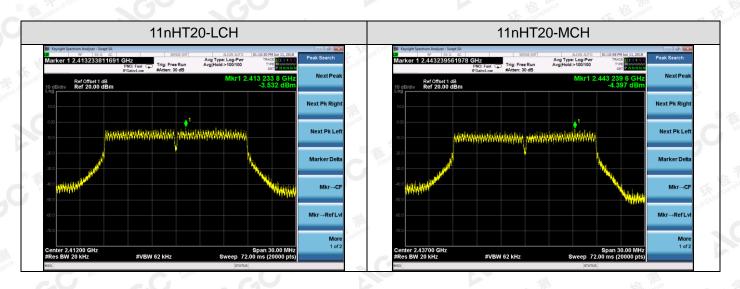


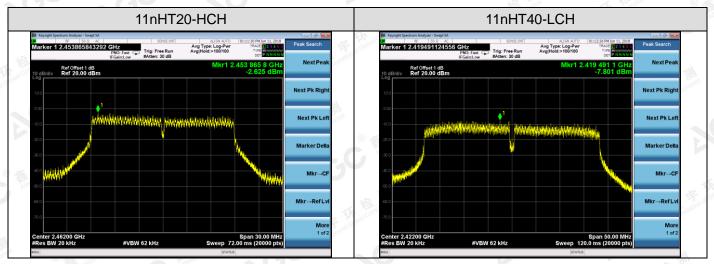


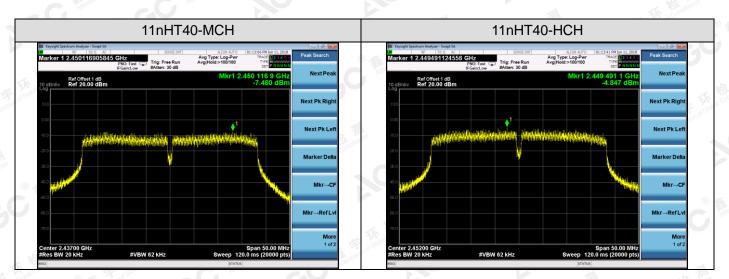


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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

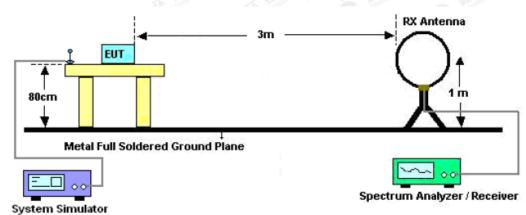
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 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.

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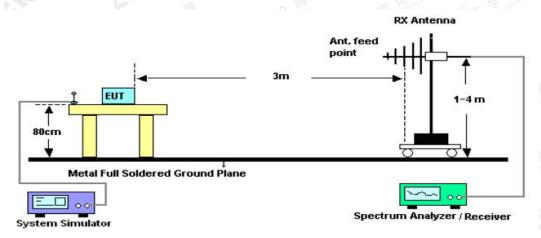


11.2. TEST SETUP

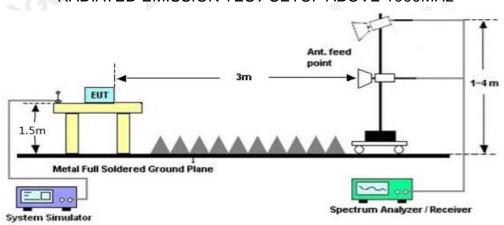
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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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.

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11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

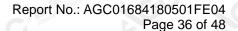
RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



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		73.6500	21.81	3.36	25.17	40.00	-14.83	peak			
2		146.4000	14.94	15.24	30.18	43.50	-13.32	peak			
3		185.2000	16.93	12.75	29.68	43.50	-13.82	peak			
4		325.8500	13.69	17.13	30.82	46.00	-15.18	peak			
5	*	440.6333	17.35	20.31	37.66	46.00	-8.34	peak		·	_
6		943.4167	1.40	29.82	31.22	46.00	-14.78	peak			

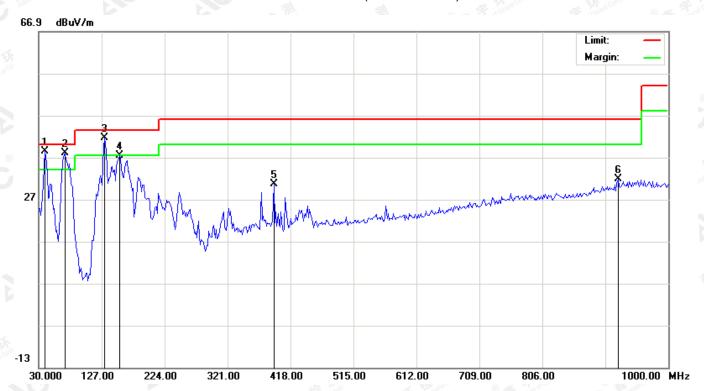
RESULT: PASS

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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	*	39.7000	29.90	8.51	38.41	40.00	-1.59	peak			
2	İ	70.4167	33.92	4.16	38.08	40.00	-1.92	peak			
3	ļ	131.8500	29.73	11.80	41.53	43.50	-1.97	peak			
4		154.4832	22.17	15.29	37.46	43.50	-6.04	peak			
5		392.1333	11.56	19.02	30.58	46.00	-15.42	peak			
6		922.4000	2.52	29.23	31.75	46.00	-14.25	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.
- All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in he report.

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Frequency	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
The Good Con	CG M	TX 11b 2412M	Hz		
4824	49.55	74	-24.45	Pk	Horizonta
4824	35.1	54	-18.9	AV	Horizonta
7236	50.25	74	-23.75	pk	Horizonta
7236	34.91	54	-19.09	AV	Horizonta
4824	50.25	74	-23.75	Pk	Vertical
4824	34.74	54	-19.26	⊗ AV √ OND	Vertical
7236	50.25	74	-23.75	Pk	Vertical
7236	39.45	54	-14.55	AV	Vertical
10		TX 11b 2437Mi	Hz	The Minnellance	F (Global Complies
4874	48.56	74	-25.44	Pk	Horizonta
4874	32.15	54	-21.85	AV	Horizonta
7311	45.66	74	-28.34	Pk	Horizonta
7311	35.46	54	-18.54	AV	Horizonta
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 _a	Vertical
极	The Compliance	TX 11b 2462M	Hz 🎆	CC MINISTER	100
4924	50.25	74	-23.75	Pk	Horizonta
4924	34.61	54	-19.39	AV	Horizonta
7386	48.56	74	-25.44	Pk	Horizonta
7386	39.15	54	-14.85	AV	Horizonta
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 Leve - 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).

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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

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12.3. RADIATED TEST RESULT

Frequency	Emission Level	Limits	Margin	Detector	Commont		
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment		
W A Tool Gold	100m	TX 11b	2412MHz				
2399.9	47.37	74	-26.63	pk	Horizontal		
2399.9	41.03	54	-12.97	AV	Horizontal		
2400	50.15	74	-23.85	pk	Horizontal		
2400	35.46	54	-18.54	AV	Horizontal		
2399.9	53.14	74	-20.86	pk 🗼	Vertical		
2399.9	38.47	54	-15.53	AV and Good	Vertical		
2400	49.58	74	-24.42	pk	Vertical		
2400	38.49	54	-15.51	AV	Vertical		
0	O NO	TX 11b	2462MHz	The Kill Compliance	F Global Company		
2483.5	47.29	74	-26.71	pk	Horizontal		
2483.5	38.46	54	-15.54	AV	Horizontal		
2483.6	48.55	74	-25.45	pk	Horizontal		
2483.6	39.54	54	-14.46	AV	Horizontal		
2483.5	48.56	74	-25.44	pk	Vertical		
2483.5	34.99	54	-19.01	AV	Vertical		
2483.6	53.14	74	-20.86	pk	Vertical		
2483.6	39.45	54	-14.55	AV AV	Vertical		

RESULT: PASS

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

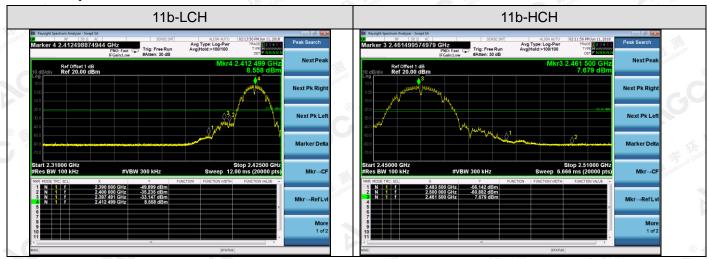
Margin= Emission Level -Limit.

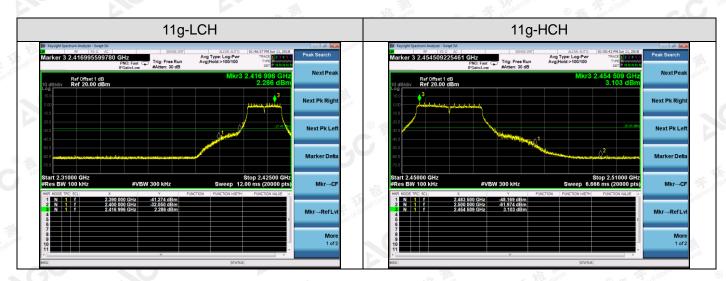
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12.4. CONDUCTED TEST RESULT

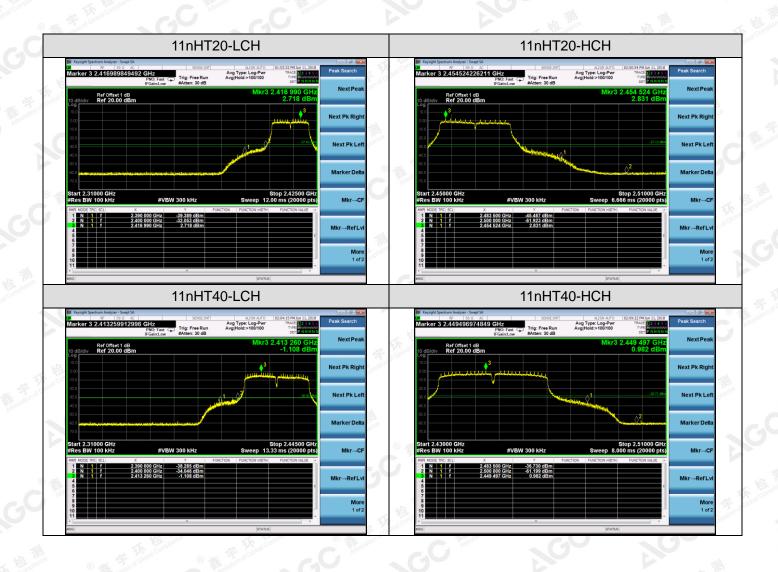
Test Graph





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13. FCC LINE CONDUCTED EMISSION TEST

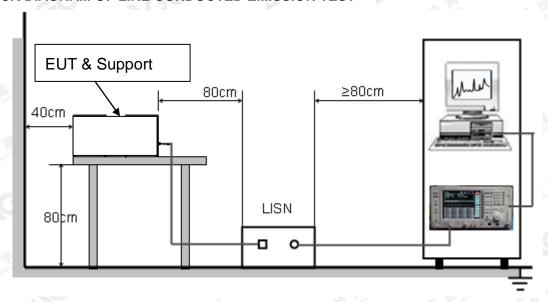
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	060	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.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

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

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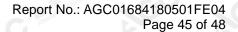


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13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.

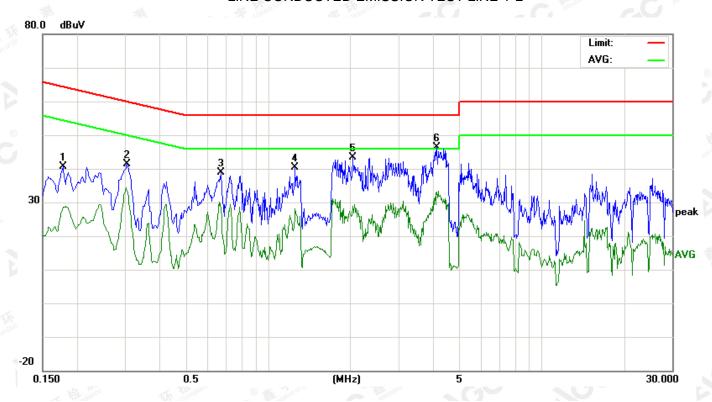
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13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST LINE 1-L

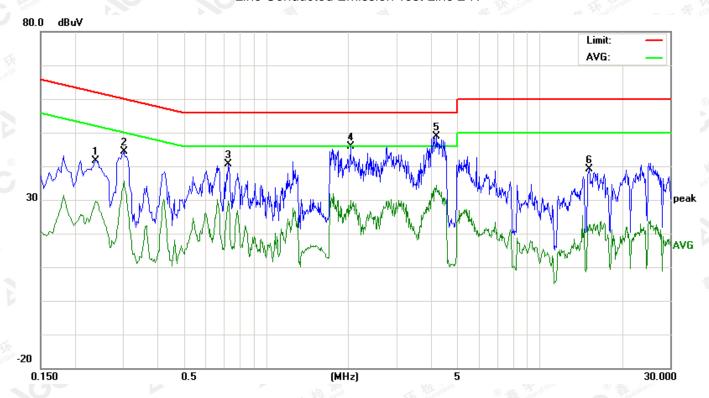


No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit M (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1780	30.49		18.48	10.19	40.68		28.67	64.57	54.57	-23.89	-25.90	Р	
2	0.3060	31.12		23.41	10.29	41.41		33.70	60.08	50.08	-18.67	-16.38	Р	
3	0.6740	28.56		17.76	10.34	38.90		28.10	56.00	46.00	-17.10	-17.90	Р	
4	1.2620	30.08		17.84	10.38	40.46		28.22	56.00	46.00	-15.54	-17.78	Р	
5	2.0420	33.15		18.45	10.24	43.39		28.69	56.00	46.00	-12.61	-17.31	Р	
6	4.1420	36.03		22.69	10.37	46.40		33.06	56.00	46.00	-9.60	-12.94	Р	

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Line Conducted Emission Test Line 2-N



No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)		Limit (dBuV)		Margin (dB)		P/F	Comment	
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2380	31.40		19.24	10.26	41.66		29.50	62.16	52.16	-20.50	-22.66	Р	
2	0.3020	33.96		25.27	10.29	44.25		35.56	60.19	50.19	-15.94	-14.63	Р	
3	0.7300	30.41		19.33	10.33	40.74		29.66	56.00	46.00	-15.26	-16.34	Р	
4	2.0380	35.69		19.64	10.24	45.93		29.88	56.00	46.00	-10.07	-16.12	Р	
5	4.2100	38.49		23.63	10.34	48.83		33.97	56.00	46.00	-7.17	-12.03	Р	
6	15.1780	28.93		12.54	10.12	39.05		22.66	60.00	50.00	-20.95	-27.34	Р	

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP



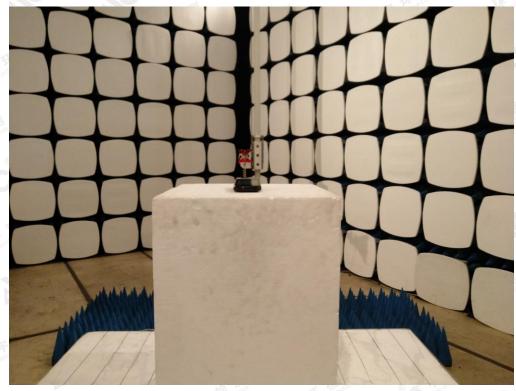
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RADIATED EMISSION ABOVE 1G TEST SETUP



--END OF REPORT--

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