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6. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

6.1 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-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 4.2.

6.3 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.910	8	Pass
Middle Channel	-2.629	8	Pass
High Channel	-0.898	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11g with data rate 6

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-8.686	8	Pass
Middle Channel	-8.500	8	Pass
High Channel	-6.412	8	Pass



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TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

Frequency (GHz)	Power density Chain 0 (dBm/20kHz)	Power density Chain 1 (dBm/20kHz)	Power density Chain 2 (dBm/20kHz)	Power density Chain 3 (dBm/20kHz)	Power density Total (dBm/20kHz)	Limit (dBm/ 3kHz)	Pass or Fail
2.412	-11.562	-11.672	-11.607	-11.536	-5.573	8	Pass
2.437	-10.329	-10.450	-11.519	-10.821	-4.735	8	Pass
2.462	-10.541	-10.542	-10.536	-10.066	-4.396	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

Frequency (GHz)	Power density Chain 0 (dBm/20kHz)	Power density Chain 1 (dBm/20kHz)	Power density Chain 2 (dBm/20kHz)	Power density Chain 3 (dBm/20kHz)	Power density Total (dBm/20kHz)	Limit (dBm/ 3kHz)	Pass or Fail
2.422	-14.206	-14.253	-14.337	-14.384	-8.274	8	Pass
2.437	-13.614	-13.680	-13.173	-13.704	-7.517	8	Pass
2.452	-14.698	-14.147	-14.131	-14.226	-8.274	8	Pass



802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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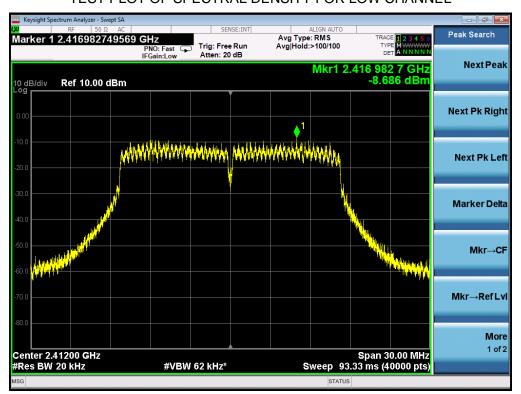




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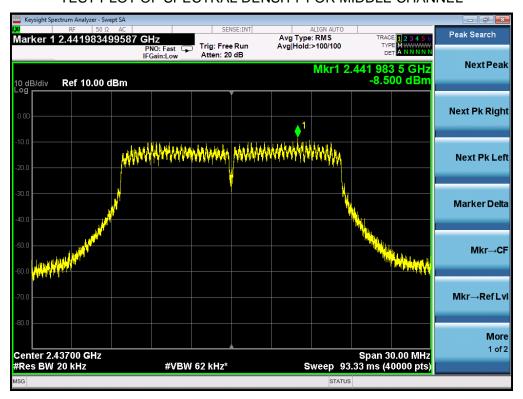
802.11g TEST RESULTTEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

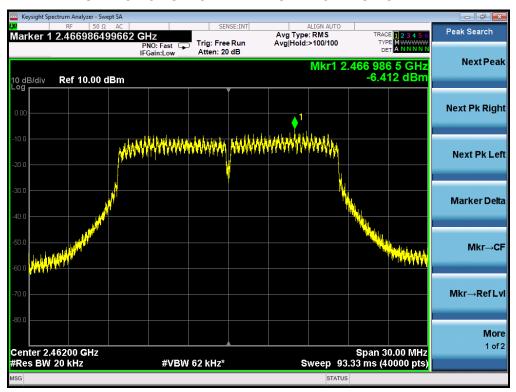




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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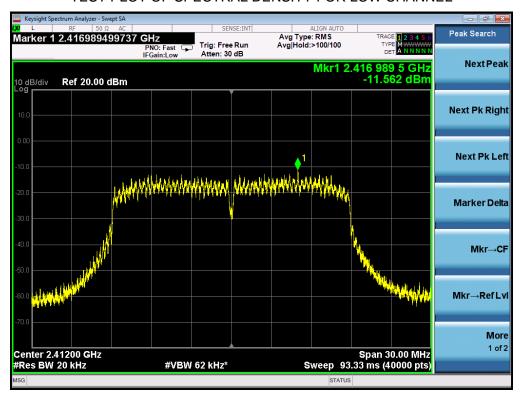




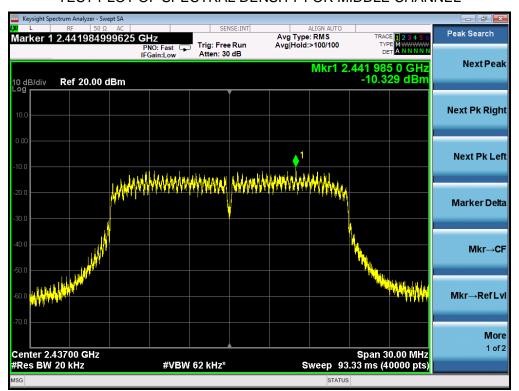


802.11n 20 TEST RESULT AT CHAIN 0
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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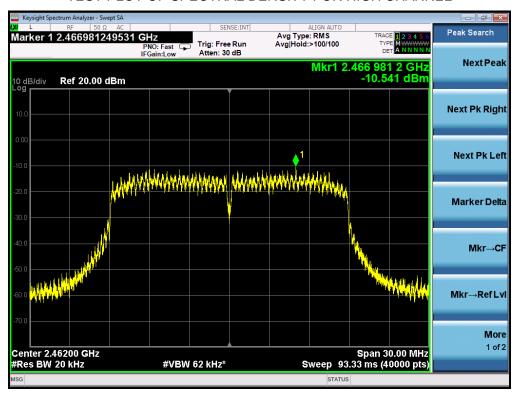


TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





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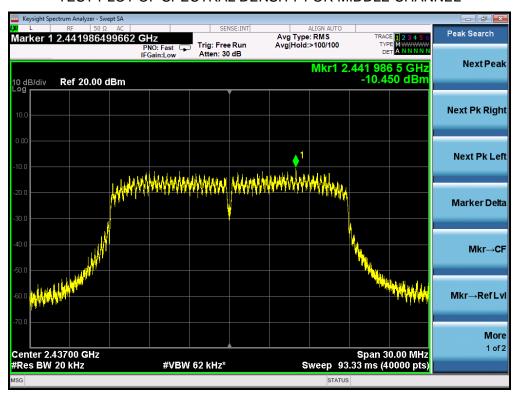
802.11n 20 TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

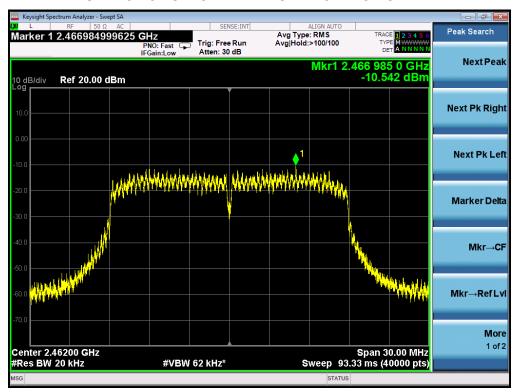




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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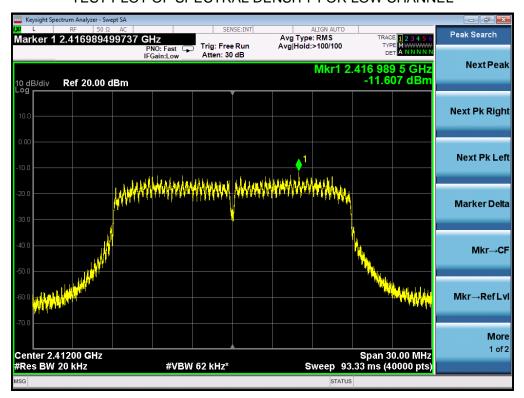


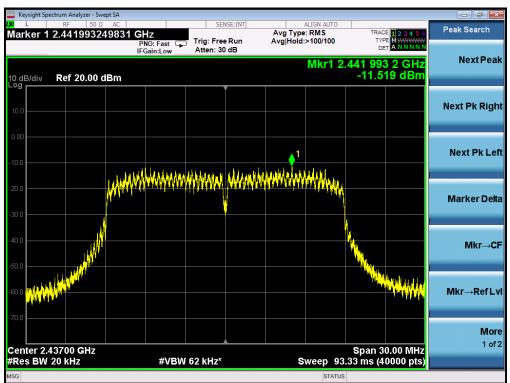




802.11n 20 TEST RESULT AT CHAIN 2 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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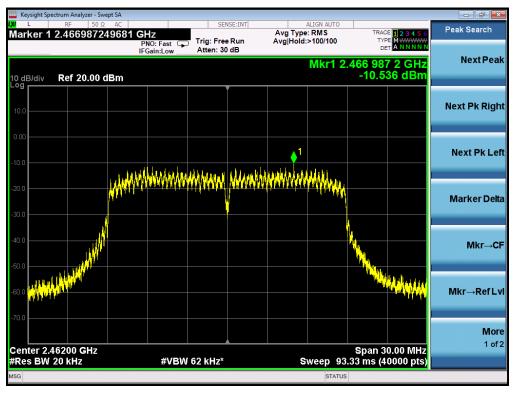






TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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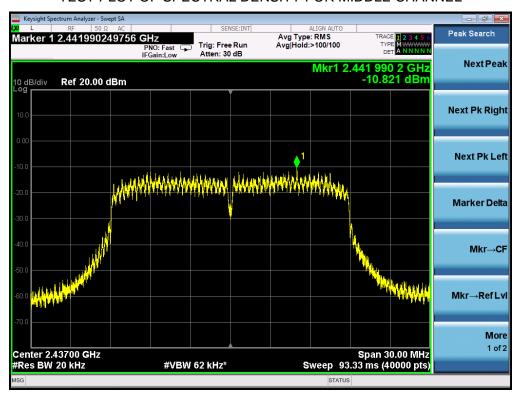
802.11n 20 TEST RESULT AT CHAIN 3
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

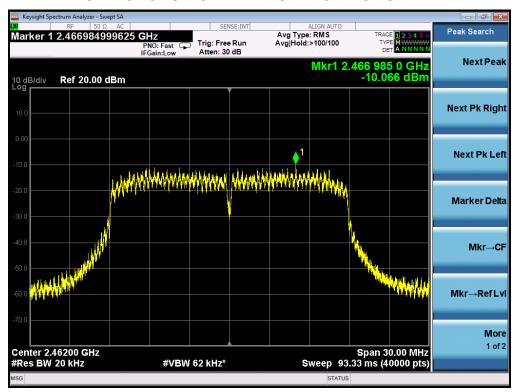




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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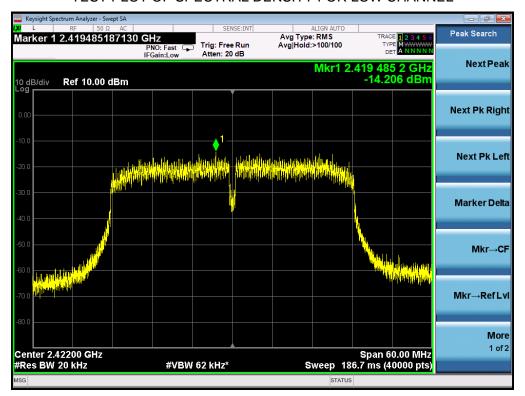


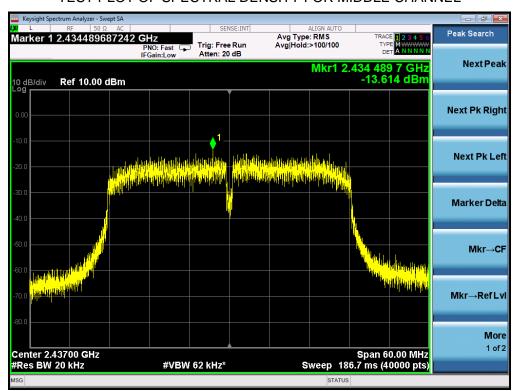




802.11n 40 TEST RESULT AT CHAIN 0 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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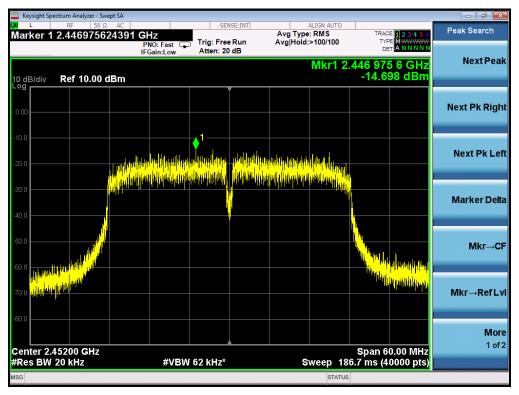




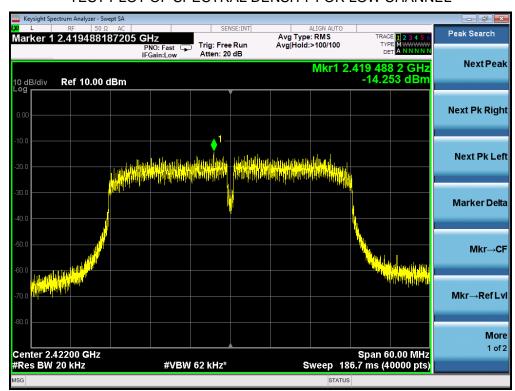


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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



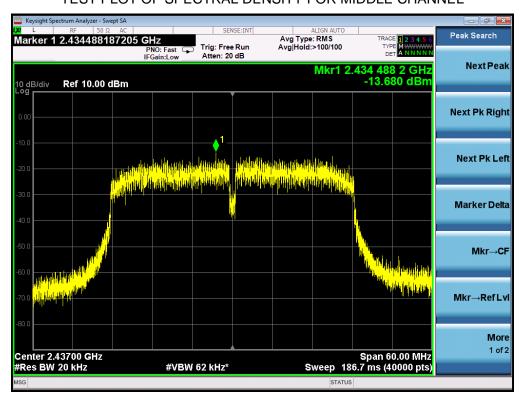
802.11n 40 TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

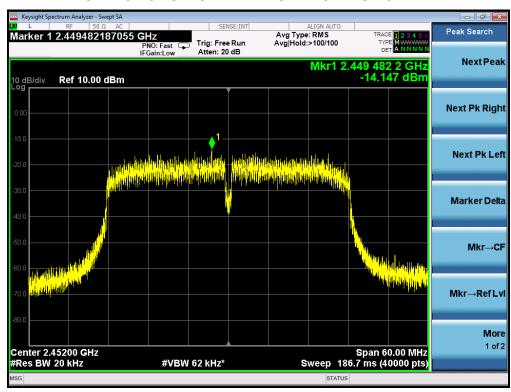




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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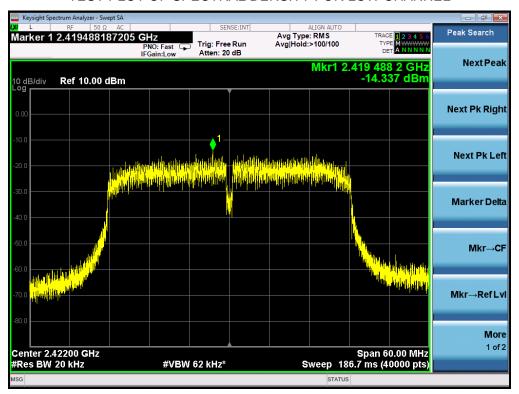


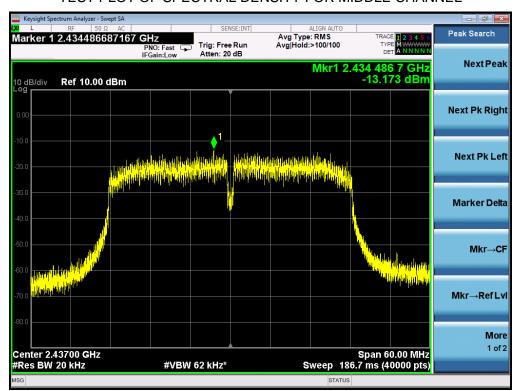




802.11n 40 TEST RESULT AT CHAIN 2
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

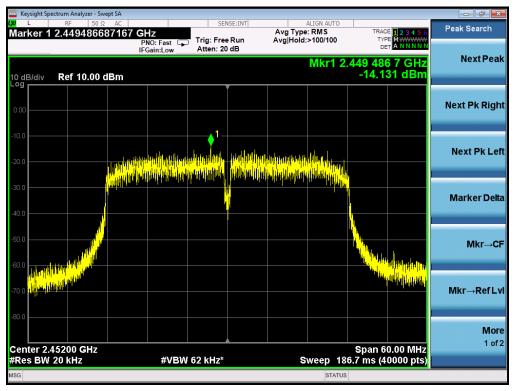
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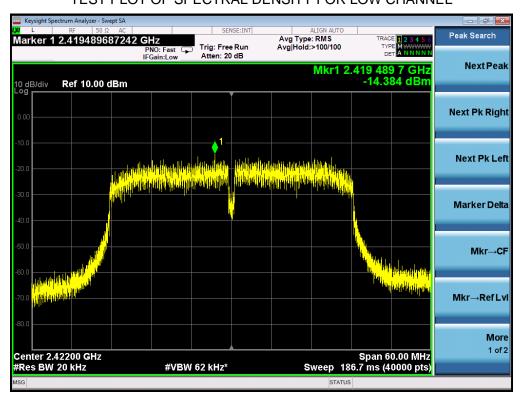




Report No.: HK1901090060E



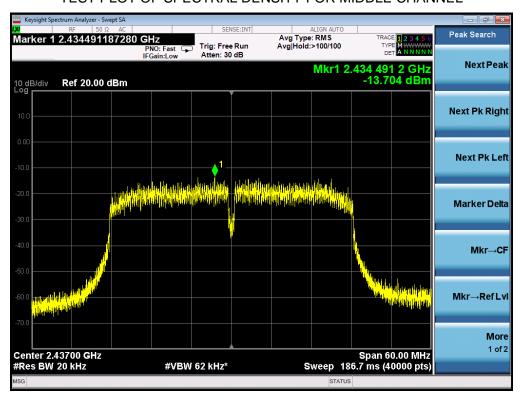
802.11n 40 TEST RESULT AT CHAIN 3
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

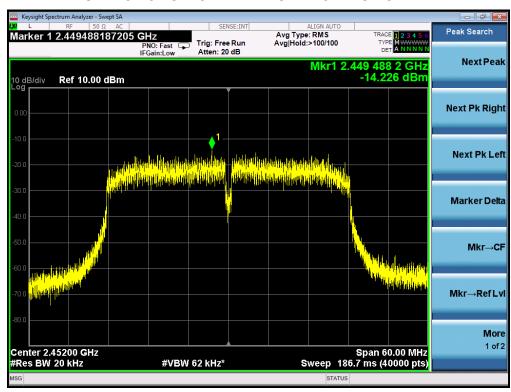




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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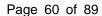


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7. RADIATED EMISSION

7.1. 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 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 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.

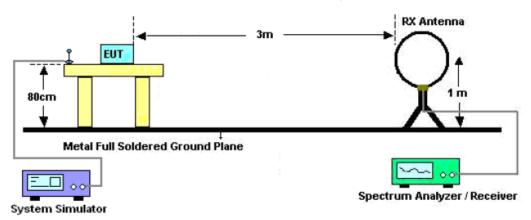




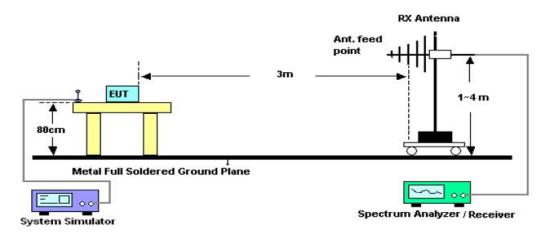
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7.2. TEST SETUP

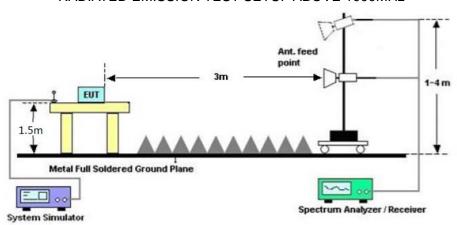
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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7.3. 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.

7.4. TEST RESULT

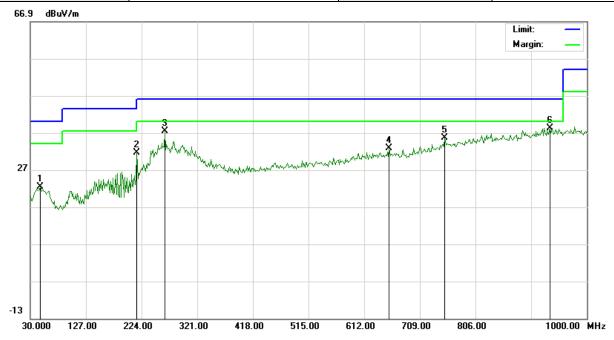
RADIATED EMISSION BELOW 30MHZ

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

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RADIATED EMISSION BELOW 1GHZ

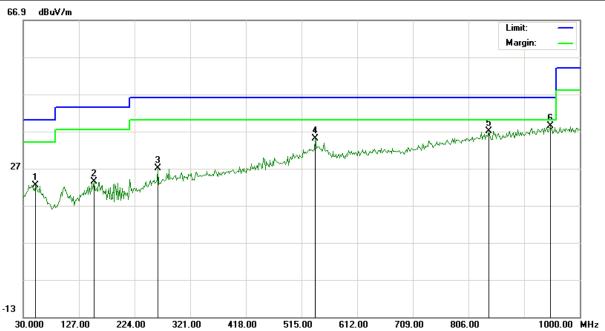
EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



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		47.7833	1.05	21.41	22.46	40.00	-17.54	peak			
2		215.9167	13.33	18.37	31.70	43.50	-11.80	peak			
3		264.4167	17.35	20.12	37.47	46.00	-8.53	peak			
4		655.6500	2.75	30.07	32.82	46.00	-13.18	peak			
5		752.6500	3.66	32.02	35.68	46.00	-10.32	peak		·	
6	*	935.3333	3.24	35.02	38.26	46.00	-7.74	peak			

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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	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		51.0167	1.11	21.27	22.38	40.00	-17.62	peak			
2		152.8667	3.15	20.28	23.43	43.50	-20.07	peak			
3		264.4167	6.97	20.12	27.09	46.00	-18.91	peak			
4		539.2500	7.03	27.95	34.98	46.00	-11.02	peak			
5		841.5667	3.29	33.79	37.08	46.00	-8.92	peak			
6	*	948.2667	3.22	35.15	38.37	46.00	-7.63	peak			

RESULT: PASS

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

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RADIATED EMISSION ABOVE 1GHZ

EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4824.093	43.52	3.72	47.24	74	-26.76	peak		
4824.059	40.44	3.72	44.16	54	-9.84	AVG		
7236.099	42.85	8.15	51	74	-23	peak		
7236.020	39.55	8.15	47.7	54	-6.3	AVG		
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4824.067	44.71	3.72	48.43	74	-25.57	peak	
4824.110	40.25	3.72	43.97	54	-10.03	AVG	
7236.049	43.44	8.15	51.59	74	-22.41	peak	
7236.037	38.57	8.15	46.72	54	-7.28	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4874.066	43.55	3.75	47.3	74	-26.7	peak	
4874.038	40.04	3.75	43.79	54	-10.21	AVG	
7311.118	40.25	8.16	48.41	74	-25.59	peak	
7311.045	38.45	8.16	46.61	54	-7.39	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.047	45.12	3.75	48.87	74	-25.13	peak
4874.067	41.25	3.75	45	54	-9	AVG
7311.024	43.04	8.16	51.2	74	-22.8	peak
7311.042	38.42	8.16	46.58	54	-7.42	AVG
Remark:						

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

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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4924.090	45.31	3.81	49.12	74	-24.88	peak	
4924.095	41.42	3.81	45.23	54	-8.77	AVG	
7386.106	41.25	8.19	49.44	74	-24.56	peak	
7386.058	37.56	8.19	45.75	54	-8.25	AVG	
						 	
Remark:							
Factor = Ante	enna Factor + C	able Loss – I	Pre-amplifier.				

EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.042	44.18	3.81	47.99	74	-26.01	peak
4924.032	40.13	3.81	43.94	54	-10.06	AVG
7386.022	40.54	8.19	48.73	74	-25.27	peak
7386.073	36.78	8.19	44.97	54	-9.03	AVG
Remark:						
=actor = Ante	enna Factor + C	able Loss – F	Pre-amplifier.			

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. 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 pre-tested. The 802.11b mode is the worst case and recorded in the report.



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8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

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

8.2. TEST SET-UP

same as 7.2

Note:

- 1. Factor=Antenna Factor + Cable loss Amplifier gain. Field Strength=Factor + Reading level
- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



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8.3. TEST RESULT

EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PΚ



AV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2422MHZ	Antenna	Horizontal

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

PΚ



ΑV





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EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

PΚ



ΑV





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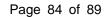
EUT	Dual band wireless adapter	Model Name	9B06
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PΚ



ΑV







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9. FCC LINE CONDUCTED EMISSION TEST

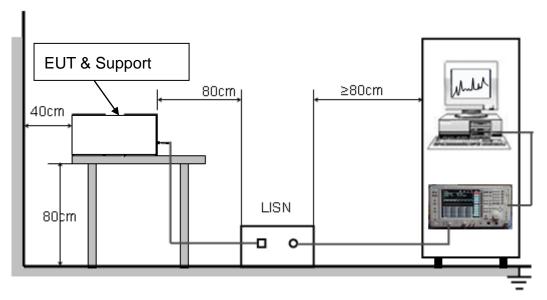
9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	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.

9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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9.3. 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 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.

9.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

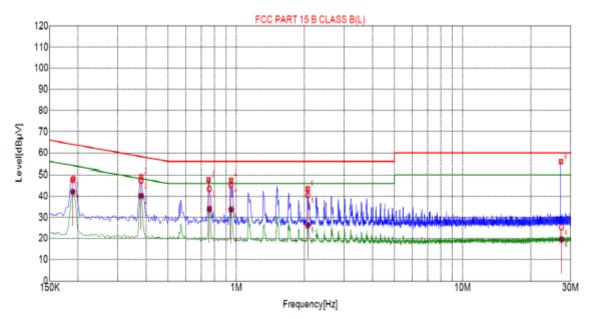
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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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9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



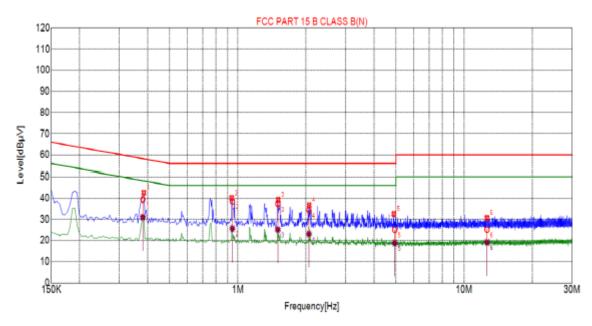


Suspected List							
NO.	Freq. [MHz]	Level (dBµV)	Factor [dB]	Limit (dBµV)	Margin (dB)	Detector	
1	0.1905	48.19	10.04	64.02	15.83	PK	
2	0.3795	49.18	10.05	58.29	9.11	PK	
3	0.7530	47.82	10.06	56.00	8.18	PK	
4	0.9465	47.56	10.06	56.00	8.44	PK	
5	2.0715	43.46	10.15	56.00	12.54	PK	
6	27.1725	55.89	10.26	60.00	4.11	PK	

Final Data List									
NO.	Freq. [MHz]	Factor (dB)	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	
1	0.1896	10.04	47.82	64.05	16.23	42.05	54.05	12.00	
2	0.3792	10.05	47.39	58.30	10.91	40.12	48.30	8.18	
3	0.7588	10.05	43.50	56.00	12.50	33.98	46.00	12.02	
4	0.9459	10.06	45.36	56.00	10.64	33.71	46.00	12.29	
5	2.0754	10.15	40.46	56.00	15.54	26.33	46.00	19.67	
6	27.2763	10.26	25.41	60.00	34.59	19.52	50.00	30.48	

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Line Conducted Emission Test Line 2-N

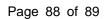


Suspected List								
NO.	Freq. [MHz]	Lovel [dBµV]	Factor [dB]	Limit [dBµV]	Margin (dB)	Detector		
1	0.3840	42.55	10.04	58.19	15.64	PK		
2	0.9375	40.09	10.06	56.00	15.91	PK		
3	1.5045	39.23	10.11	56.00	16.77	PK		
4	2.0715	36.66	10.15	56.00	19.34	PK		
5	4.8975	32.55	10.26	56.00	23.45	PK		
6	12.6105	30.64	9.98	60.00	29.36	PK		

Final	Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]		
1	0.3802	10.05	39.37	58.28	18.91	31.00	48.28	17.28		
2	0.9446	10.06	38.49	56.00	17.51	25.66	46.00	20.34		
3	1.4991	10.10	37.36	56.00	18.64	25.20	46.00	20.80		
4	2.0663	10.15	34.44	56.00	21.56	23.12	46.00	22.88		
5	4.9427	10.26	25.06	56.00	30.94	18.81	46.00	27.19		
6	12.6174	9.98	25.19	60.00	34.81	19.17	50.00	30.83		

RESULT: PASS

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

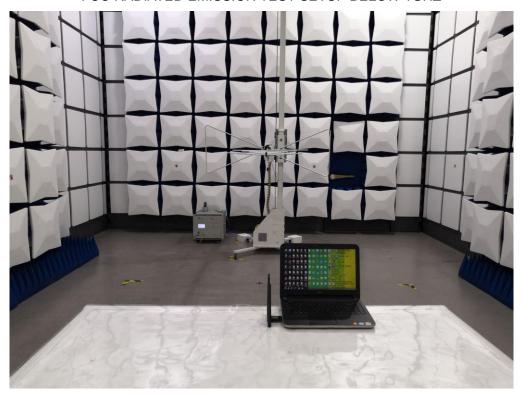


WATA Y

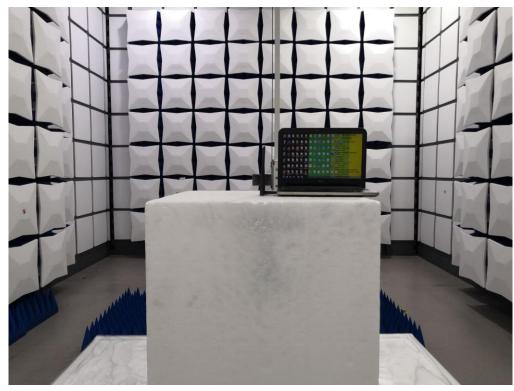
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

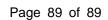
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FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

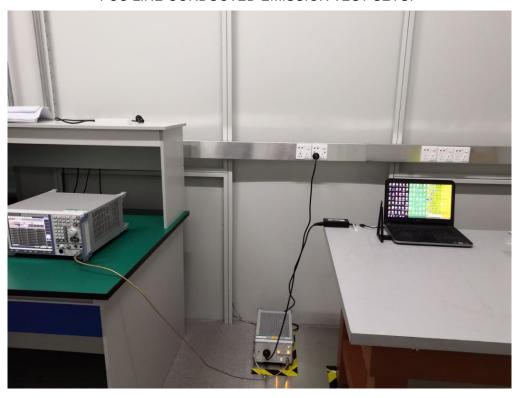






FCC LINE CONDUCTED EMISSION TEST SETUP

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----END OF REPORT----