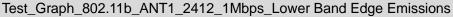




Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

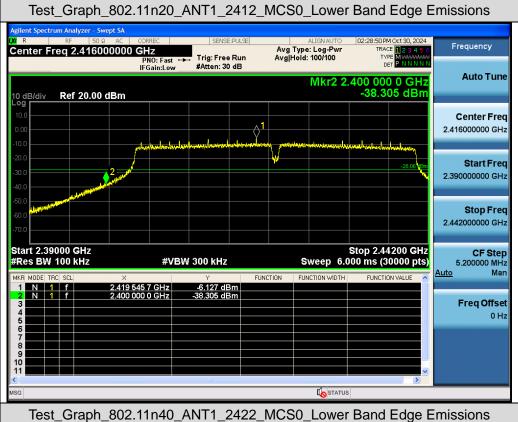






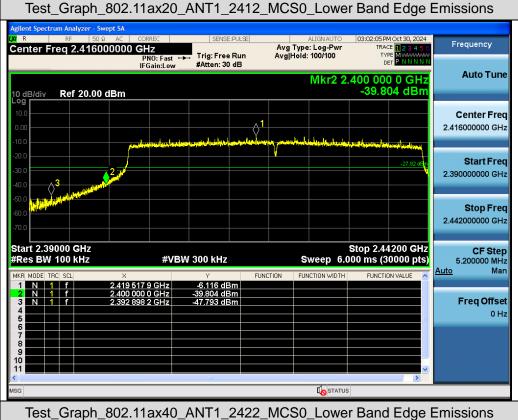














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11. Radiated Spurious Emission

11.1 Measurement Limits

15.209(a) 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.

11.2 Measurement Procedure

- 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.



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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 following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
Start ~Stop i requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average

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



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Quasi-Peak Measurements below 1GHz

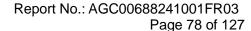
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

• Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Average Measurements above 1GHz

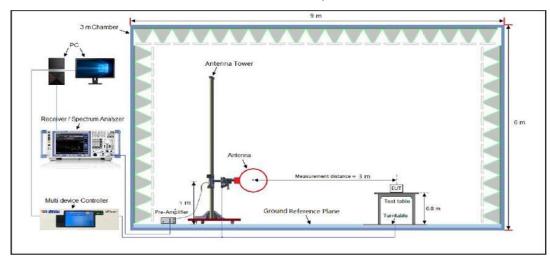
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. $VBW \ge [3 \times RBW]$
- 4. Detector = Power averaging (rms)
- 5. Averaging type = power (i.e., rms)
- 6. Sweep time = auto
- 7. Perform a trace average of at least 100 traces.
- 8. The applicable correction factor is [10*log (1 / D)], where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



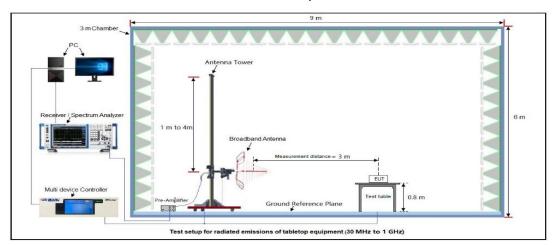


11.3 Measurement Setup (Block Diagram of Configuration)

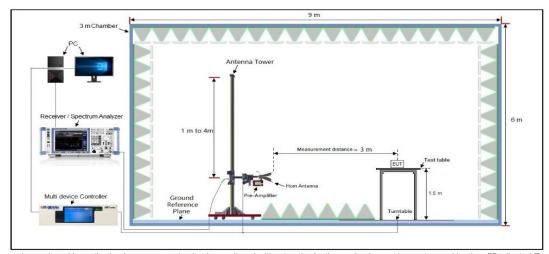
Radiated Emission Test Setup 9kHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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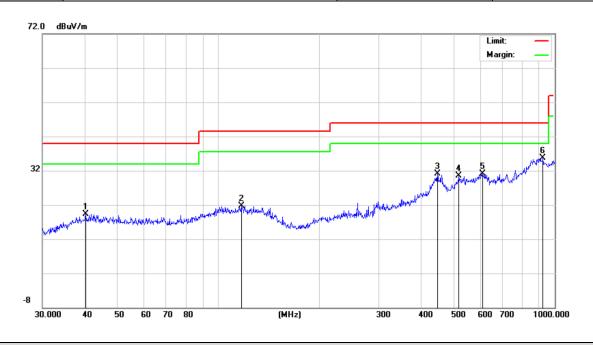


11.4 Measurement Result

Radiated Emission at 9kHz-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.

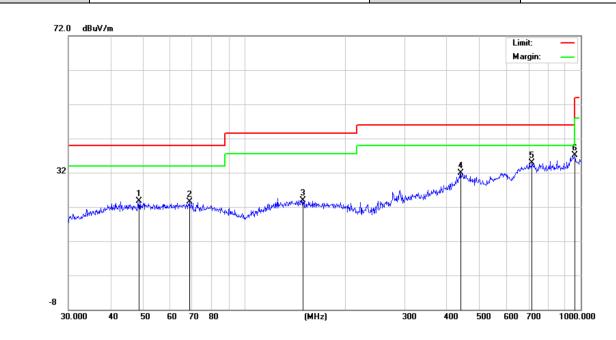
Ferring residence residence repeated in						
Radiated Emission Test Results at 30MHz-1GHz						
EUT Name Wireless USB Adapter Model Name AX913						
Temperature	22.9℃	Relative Humidity	57.2 %			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 1	Antenna Polarity	Horizontal			



Final D	Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.2757	19.33	13.88	40.00	20.67	100	346	Horizontal
2	116.9495	21.80	16.37	43.50	21.7	100	332	Horizontal
3	447.9822	31.12	24.82	46.00	14.88	100	100	Horizontal
4	519.0649	30.54	25.05	46.00	15.46	100	211	Horizontal
5	609.9217	31.18	25.15	46.00	14.82	100	82	Horizontal
6	922.5157	35.78	29.00	46.00	10.22	100	274	Horizontal



Radiated Emission Test Results at 30MHz-1GHz						
EUT Name	Wireless USB Adapter	Model Name	AX913			
Temperature	22.9℃	Relative Humidity	57.2 %			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 1	Antenna Polarity	Vertical			



Final D	Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.6719	23.61	16.99	40.00	16.39	100	346	Vertical
2	68.6310	23.60	17.01	40.00	16.4	100	332	Vertical
3	149.4857	23.98	18.20	43.50	19.52	100	100	Vertical
4	440.1963	31.99	26.09	46.00	14.01	100	211	Vertical
5	716.6820	34.94	28.68	46.00	11.06	100	82	Vertical
6	962.1623	37.19	30.10	54.00	16.81	100	274	Vertical

RESULT: Pass

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

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.



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Radiated Emissions Test Results above 1 GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	46.40	0.08	46.48	74	-27.52	peak
4824.000	38.62	0.08	38.70	54	-15.30	AVG
7236.000	41.01	2.21	43.22	74	-30.78	peak
7236.000	32.39	2.21	34.60	54	-19.40	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	46.58	0.08	46.66	74	-27.34	peak
4824.000	36.91	80.0	36.99	54	-17.01	AVG
7236.000	41.68	2.21	43.89	74	-30.11	peak
7236.000	32.07	2.21	34.28	54	-19.72	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.37	0.08	46.45	74	-27.55	peak
4874.000	38.14	0.08	38.22	54	-15.78	AVG
7311.000	41.47	2.21	43.68	74	-30.32	peak
7311.000	32.91	2.21	35.12	54	-18.88	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.47	0.08	46.55	74	-27.45	peak
4874.000	39.14	0.08	39.22	54	-14.78	AVG
7311.000	41.33	2.21	43.54	74	-30.46	peak
7311.000	32.18	2.21	34.39	54	-19.61	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	46.87	0.08	46.95	74	-27.05	peak
4924.000	35.98	0.08	36.06	54	-17.94	AVG
7386.000	41.18	2.21	43.39	74	-30.61	peak
7386.000	32.59	2.21	34.80	54	-19.20	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	46.35	0.08	46.43	74	-27.57	peak
4924.000	37.25	0.08	37.33	54	-16.67	AVG
7386.000	41.86	2.21	44.07	74	-29.93	peak
7386.000	32.61	2.21	34.82	54	-19.18	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1 GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	46.00	80.0	46.08	74	-27.92	peak
4824.000	36.21	0.08	36.29	54	-17.71	AVG
7236.000	41.00	2.21	43.21	74	-30.79	peak
7236.000	32.79	2.21	35.00	54	-19.00	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	46.76	0.08	46.84	74	-27.16	peak
4824.000	39.47	0.08	39.55	54	-14.45	AVG
7236.000	41.22	2.21	43.43	74	-30.57	peak
7236.000	32.27	2.21	34.48	54	-19.52	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.00	0.08	46.08	74	-27.92	peak
4874.000	38.15	0.08	38.23	54	-15.77	AVG
7311.000	41.60	2.21	43.81	74	-30.19	peak
7311.000	32.70	2.21	34.91	54	-19.09	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.03	0.08	46.11	74	-27.89	peak
4874.000	37.52	0.08	37.60	54	-16.40	AVG
7311.000	41.40	2.21	43.61	74	-30.39	peak
7311.000	32.18	2.21	34.39	54	-19.61	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	46.96	80.0	47.04	74	-26.96	peak
4924.000	37.15	0.08	37.23	54	-16.77	AVG
7386.000	41.74	2.21	43.95	74	-30.05	peak
7386.000	32.12	2.21	34.33	54	-19.67	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	46.49	0.08	46.57	74	-27.43	peak
4924.000	36.31	0.08	36.39	54	-17.61	AVG
7386.000	41.79	2.21	44.00	74	-30.00	peak
7386.000	32.81	2.21	35.02	54	-18.98	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1 GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	46.16	0.08	46.24	74	-27.76	peak
4824.000	35.62	0.08	35.70	54	-18.30	AVG
7236.000	41.95	2.21	44.16	74	-29.84	peak
7236.000	32.42	2.21	34.63	54	-19.37	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	46.20	0.08	46.28	74	-27.72	peak
4824.000	39.82	0.08	39.90	54	-14.10	AVG
7236.000	41.53	2.21	43.74	74	-30.26	peak
7236.000	32.13	2.21	34.34	54	-19.66	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.02	0.08	46.10	74	-27.90	peak
4874.000	39.52	0.08	39.60	54	-14.40	AVG
7311.000	41.63	2.21	43.84	74	-30.16	peak
7311.000	32.29	2.21	34.50	54	-19.50	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.49	0.08	46.57	74	-27.43	peak
4874.000	37.28	0.08	37.36	54	-16.64	AVG
7311.000	41.27	2.21	43.48	74	-30.52	peak
7311.000	32.72	2.21	34.93	54	-19.07	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	47.51	80.0	47.59	74	-26.41	peak
4924.000	37.34	0.08	37.42	54	-16.58	AVG
7386.000	41.87	2.21	44.08	74	-29.92	peak
7386.000	32.13	2.21	34.34	54	-19.66	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	48.36	0.08	48.44	74	-25.56	peak
4924.000	38.00	0.08	38.08	54	-15.92	AVG
7386.000	41.09	2.21	43.30	74	-30.70	peak
7386.000	32.10	2.21	34.31	54	-19.69	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1 GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	49.01	0.08	49.09	74	-24.91	peak
4824.000	37.05	0.08	37.13	54	-16.87	AVG
7236.000	41.43	2.21	43.64	74	-30.36	peak
7236.000	32.66	2.21	34.87	54	-19.13	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.000	45.83	0.08	45.91	74	-28.09	peak
4824.000	37.62	0.08	37.70	54	-16.30	AVG
7236.000	41.05	2.21	43.26	74	-30.74	peak
7236.000	32.86	2.21	35.07	54	-18.93	AVG
1						

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 11	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	49.15	0.08	49.23	74	-24.77	peak
4874.000	37.25	0.08	37.33	54	-16.67	AVG
7311.000	41.52	2.21	43.73	74	-30.27	peak
7311.000	32.23	2.21	34.44	54	-19.56	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 11	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	45.17	0.08	45.25	74	-28.75	peak
4874.000	37.53	0.08	37.61	54	-16.39	AVG
7311.000	41.48	2.21	43.69	74	-30.31	peak
7311.000	32.96	2.21	35.17	54	-18.83	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Trea
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	46.16	0.08	46.24	74	-27.76	peak
4924.000	37.50	0.08	37.58	54	-16.42	AVG
7386.000	42.61	2.21	44.82	74	-29.18	peak
7386.000	32.36	2.21	34.57	54	-19.43	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	46.94	0.08	47.02	74	-26.98	peak
4924.000	37.03	0.08	37.11	54	-16.89	AVG
7386.000	42.30	2.21	44.51	74	-29.49	peak
7386.000	32.82	2.21	35.03	54	-18.97	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1 GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 13	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.000	46.95	0.08	47.03	74	-26.97	peak
4844.000	37.00	0.08	37.08	54	-16.92	AVG
7266.000	41.31	2.21	43.52	74	-30.48	peak
7266.000	36.41	2.21	38.62	54	-15.38	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 13	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.000	48.14	0.08	48.22	74	-25.78	peak
4844.000	37.04	80.0	37.12	54	-16.88	AVG
7266.000	41.54	2.21	43.75	74	-30.25	peak
7266.000	32.59	2.21	34.80	54	-19.20	AVG
l						

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 14	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	48.51	0.08	48.59	74	-25.41	peak
4874.000	37.49	0.08	37.57	54	-16.43	AVG
7311.000	41.59	2.21	43.80	74	-30.20	peak
7311.000	32.79	2.21	35.00	54	-19.00	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 14	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	46.15	0.08	46.23	74	-27.77	peak
4874.000	39.21	0.08	39.29	54	-14.71	AVG
7311.000	41.55	2.21	43.76	74	-30.24	peak
7311.000	32.40	2.21	34.61	54	-19.39	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 15	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.000	46.04	0.08	46.12	74	-27.88	peak
4904.000	39.51	0.08	39.59	54	-14.41	AVG
7356.000	41.92	2.21	44.13	74	-29.87	peak
7356.000	32.20	2.21	34.41	54	-19.59	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 15	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.000	46.36	0.08	46.44	74	-27.56	peak
4904.000	37.10	0.08	37.18	54	-16.82	AVG
7356.000	43.81	2.21	46.02	74	-27.98	peak
7356.000	32.79	2.21	35.00	54	-19.00	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1 GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 16	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.000	49.51	0.08	49.59	74	-24.41	peak
4844.000	37.44	0.08	37.52	54	-16.48	AVG
7266.000	41.13	2.21	43.34	74	-30.66	peak
7266.000	32.47	2.21	34.68	54	-19.32	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 16	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4844.000	48.51	0.08	48.59	74	-25.41	peak
4844.000	37.13	0.08	37.21	54	-16.79	AVG
7266.000	41.32	2.21	43.53	74	-30.47	peak
7266.000	32.52	2.21	34.73	54	-19.27	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 17	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.000	46.92	0.08	47.00	74	-27.00	peak
4904.000	37.41	0.08	37.49	54	-16.51	AVG
7356.000	44.63	2.21	46.84	74	-27.16	peak
7356.000	32.06	2.21	34.27	54	-19.73	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 17	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4904.000	46.52	0.08	46.60	74	-27.40	peak
4904.000	37.39	0.08	37.47	54	-16.53	AVG
7356.000	43.29	2.21	45.50	74	-28.50	peak
7356.000	32.05	2.21	34.26	54	-19.74	AVG

Remark:

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

RESULT: Pass



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Radiated Emissions Test Results above 1GHz

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 18	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	47.69	80.0	47.77	74	-26.23	peak
4924.000	37.03	0.08	37.11	54	-16.89	AVG
7386.000	41.84	2.21	44.05	74	-29.95	peak
7386.000	32.91	2.21	35.12	54	-18.88	AVG

Remark:

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

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 18	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.000	48.17	0.08	48.25	74	-25.75	peak
4924.000	37.65	0.08	37.73	54	-16.27	AVG
7386.000	41.62	2.21	43.83	74	-30.17	peak
7386.000	32.87	2.21	35.08	54	-18.92	AVG
Remark:						

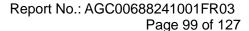
RESULT: Pass

Note:

- 1. 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.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.

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

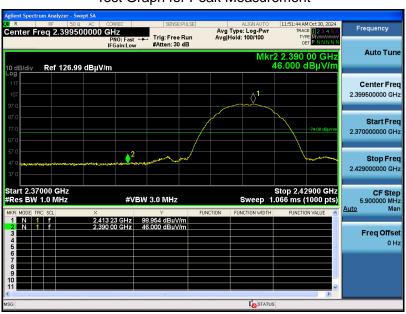




Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



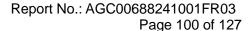
Test Graph for Average Measurement



RESULT: Pass

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. 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 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



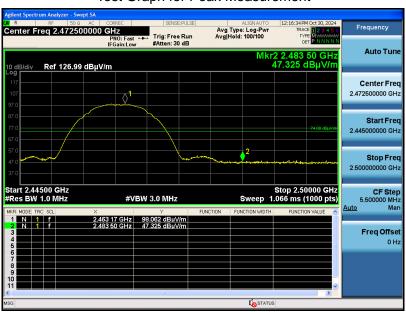
RESULT: Pass



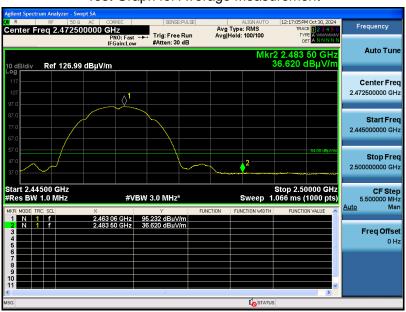
Band Edge Emission Test Results for Restricted Bands

EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

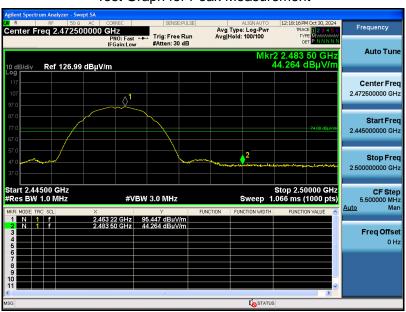


RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Horizontal

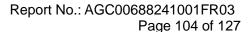
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Vertical

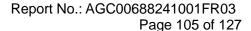
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna Polarity	Vertical

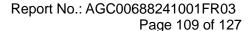
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

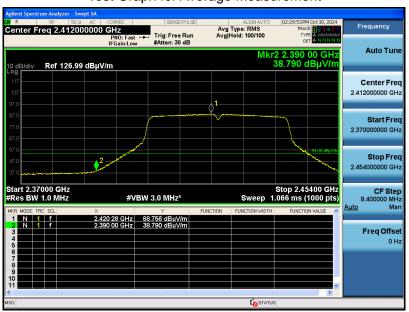


EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

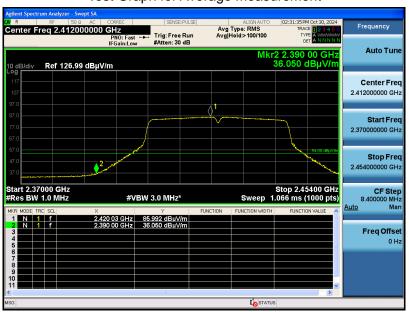


EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 10	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Horizontal

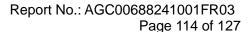
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 12	Antenna Polarity	Vertical

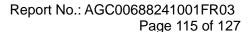
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 13	Antenna Polarity	Horizontal

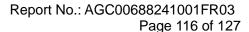
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 13	Antenna Polarity	Vertical

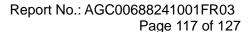
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 15	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 15	Antenna Polarity	Vertical

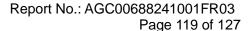
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



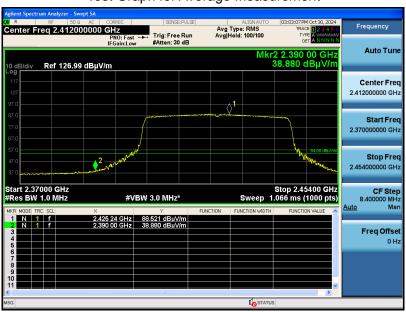


EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 16	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 16	Antenna Polarity	Vertical

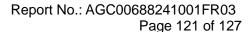
Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass





EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 18	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless USB Adapter	Model Name	AX913
Temperature	22.9℃	Relative Humidity	57.2 %
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 18	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

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



12. AC Power Line Conducted Emission

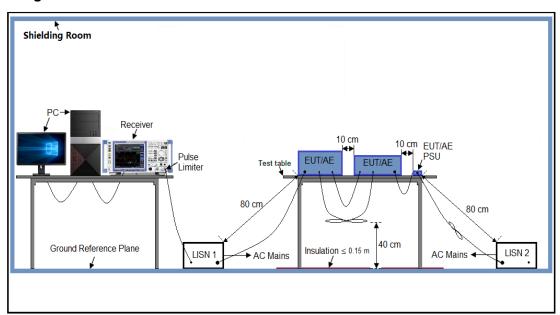
12.1 Measurement Limits

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

Note:

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

12.2 Block Diagram of Line Conducted Emission Test





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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 5V power from PC that connected to 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.

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.
- 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 was reported on the Summary Data page.



12.5 Test Result of Line Conducted Emission Test

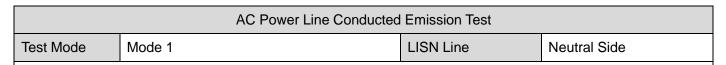
		AC Power	Line Cond	lucted En	nission Tes	st	
est Mode	Mode 1			LI	SN Line		Hot Side
	Level [dBμV]						
70	1 : : :						;
60			L				
50			<u></u>	.		1 1 1 1	
40	44	+!				i i i i	
30	Mary	Manufactural and	adesos as a	<u> </u>			
20) - Marrow Marrow	A+1-1-1-1-1-1-1	+ "+ "+ "+ III		del consiste de la constitución de	1-1-1	The same of
10	·						
0	·						
-10	150k 300k 400k	600k 800k 11	М	M 3M	4M 5M 6M	8M 10M	20M 30M
	100K	000K 000K 11		ency [Hz]	4111 0111 0111	OIII TOIII	2011 0011
+ +	+MES agc_fin						
	MEASUREMENT		: "agc_	fin"			
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000		Transd dB 6.1 6.1 6.1 6.2	Limit dBµV 66 65 65 56 56	Margin dB 20.8 22.8 24.2 33.2 32.1 33.3	Detector QP QP QP QP QP QP QP QP	r Line L1 L1 L1 L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70	Transd dB 6.1 6.1 6.1 6.2 6.2 6.2	Limit dBµV 66 65 65 56 56	dB 20.8 22.8 24.2 33.2 32.1	QP QP QP QP QP	L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000 1.470000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70 RESULT	Transd dB 6.1 6.1 6.2 6.2 6.2 6.2	Limit dBµV 66 65 65 56 56	dB 20.8 22.8 24.2 33.2 32.1	QP QP QP QP QP	L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000 1.470000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70 RESULT	Transd dB 6.1 6.1 6.2 6.2 6.2 6.2	Limit dBµV 66 65 56 56 56	dB 20.8 22.8 24.2 33.2 32.1 33.3	QP QP QP QP QP	L1 L1 L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000 1.470000 MEASUREMENT 2024/10/10 2: Frequency MHz 0.154000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70 **RESULT** 3:56 Level dBµV 30.40	Transd dB 6.1 6.1 6.2 6.2 6.2 Transd dB 6.1	Limit dBµV 66 65 56 56 56 56 fin2" Limit dBµV	dB 20.8 22.8 24.2 33.2 32.1 33.3	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000 1.470000 MEASUREMENT 2024/10/10 2: Frequency MHz 0.154000 0.510000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70 **RESULT** 3:56 Level dBµV 30.40 22.80	Transd dB 6.1 6.1 6.2 6.2 6.2 6.2 7ransd dB 6.1 6.1	Limit dBµV 66 65 56 56 56 56 46	dB 20.8 22.8 24.2 33.2 32.1 33.3	QP QP QP QP QP QP AV	L1 L1 L1 L1 L1 L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000 1.470000 MEASUREMENT 2024/10/10 2: Frequency MHz 0.154000 0.510000 0.954000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70 RESULT 3:56 Level dBµV 30.40 22.80 16.90	Transd dB 6.1 6.2 6.2 6.2 Transd dB 6.1 6.2 6.2	Limit dBµV 66 65 56 56 56 56 40 46 46	dB 20.8 22.8 24.2 33.2 32.1 33.3	QP QP QP QP QP QP AV AV	L1 L1 L1 L1 L1 L1 L1
	2024/10/10 2: Frequency MHz 0.154000 0.166000 0.174000 0.566000 1.134000 1.470000 MEASUREMENT 2024/10/10 2: Frequency MHz 0.154000 0.510000	3:56 Level dBµV 45.00 42.40 40.60 22.80 23.90 22.70 **RESULT** 3:56 Level dBµV 30.40 22.80	Transd dB 6.1 6.1 6.2 6.2 6.2 6.2 7ransd dB 6.1 6.1	Limit dBµV 66 65 56 56 56 56 46	dB 20.8 22.8 24.2 33.2 32.1 33.3	QP QP QP QP QP QP AV AV AV	L1 L1 L1 L1 L1 L1 L1 L1 L1

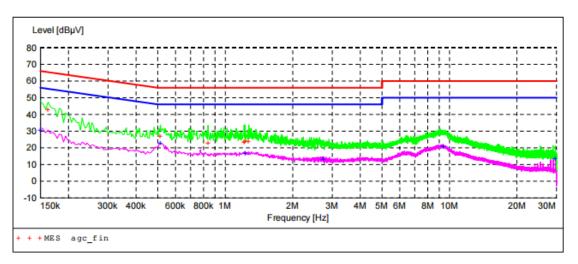
RESULT: Pass

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MEASUREMENT RESULT: "agc_fin"

2024/10/10 23	:53					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dΒμV	dB	dΒμV	dB		
0.162000	42.60	6.1	65	22.8	QP	N
0.514000	27.00	6.2	56	29.0	QP	N
0.838000	22.80	6.2	56	33.2	QP	N
1.214000	23.10	6.2	56	32.9	QP	N
1.226000	23.70	6.2	56	32.3	QP	N
1.274000	23.60	6.2	56	32.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2024/10/10 23:53							
Frequency		Level	Transd	Limit	Margin	Detector	Line
MHz		dΒμV	dB	dΒμV	dB		
0.150	000	30.60	6.1	56	25.4	AV	N
0.514	000	22.60	6.2	46	23.4	AV	N
1.226	000	16.70	6.2	46	29.3	AV	N
2.746	000	13.00	6.3	46	33.0	AV	N
9.382	000	20.90	6.6	50	29.1	AV	N
29.682	000	13.30	8.3	50	36.7	AV	N

RESULT: Pass



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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00688241001AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC00688241001AP03

----End of Report----



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- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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- 7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.