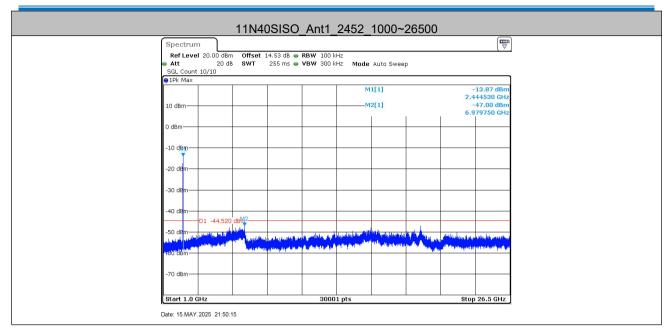




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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



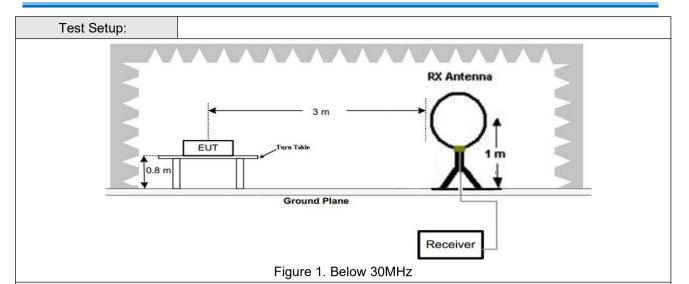
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5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance:	3m (Semi-Anechoi	c Chamber)						
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	Peak	1MHz	10Hz	Average				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	500	54.0	Average	3				
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								



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Antenna Tower

Antenna Tower

Ground Reference Plane

AE EUT

ARTHURA Antenna Tower

Ground Reference Plane

Test Receiver

Test Receiver

Test Receiver

Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

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.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

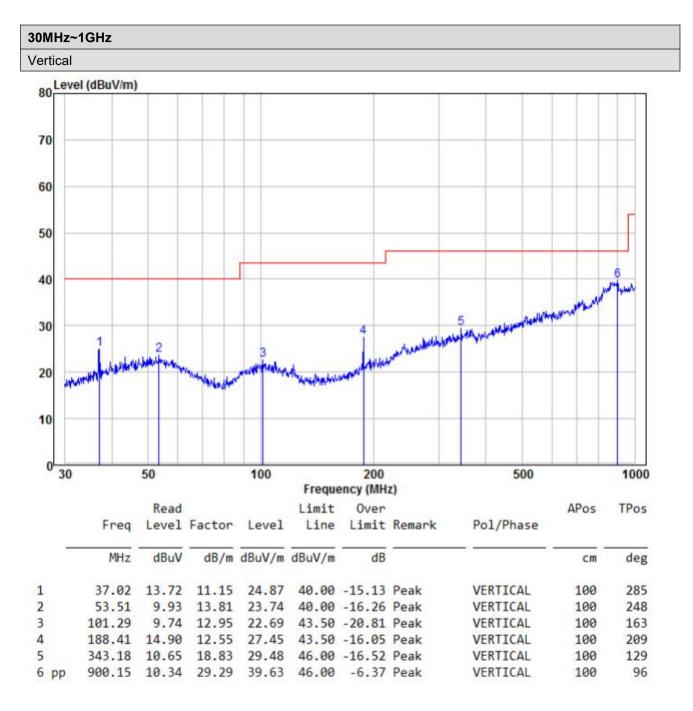


	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case .
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass



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5.9.1 Radiated emission below 1GHz



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

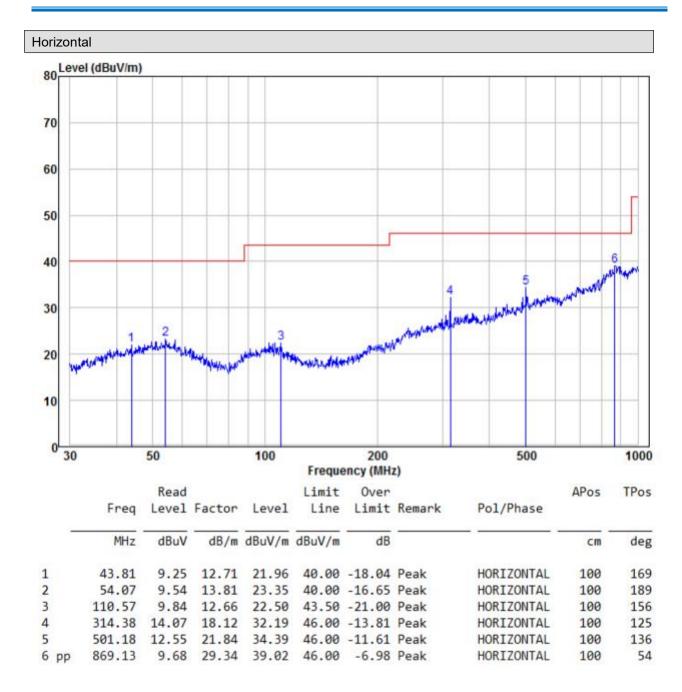
Level = Read Level + Factor,

Over Limit=Level-Limit Line.





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Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



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5.9.2 Transmitter emission above 1GHz

Test mode:		802.11b(1Mbps)		Test chann	iel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	(m)	(Degree)
4824.000	53.92	-4.26	49.66	74	-24.34	peak	Н	1.5	283
4824.000	37.94	-4.26	33.68	54	-20.32	AVG	Н	1.5	171
7236.000	51.18	1.18	52.36	74	-21.64	peak	Н	1.5	144
7236.000	38.74	1.18	39.92	54	-14.08	AVG	Н	1.5	238
4824.000	54.48	-4.26	50.22	74	-23.78	peak	V	1.5	220
4824.000	38.97	-4.26	34.71	54	-19.29	AVG	V	1.5	138
7236.000	51.49	1.18	52.67	74	-21.33	peak	V	1.5	43
7236.000	36.79	1.18	37.97	54	-16.03	AVG	V	1.5	81

Test mode:		802.11b(1Mbps)		Test chann	nel:	Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4874.000	51.82	-4.12	47.70	74	-26.30	peak	Н	1.5	143
4874.000	36.39	-4.12	32.27	54	-21.73	AVG	Н	1.5	357
7311.000	50.09	1.46	51.55	74	-22.45	peak	Н	1.5	279
7311.000	36.57	1.46	38.03	54	-15.97	AVG	Н	1.5	20
4874.000	53.17	-4.12	49.05	74	-24.95	peak	V	1.5	72
4874.000	36.83	-4.12	32.71	54	-21.29	AVG	V	1.5	354
7311.000	49.31	1.46	50.77	74	-23.23	peak	V	1.5	308
7311.000	36.44	1.46	37.90	54	-16.10	AVG	V	1.5	85



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Test mode:		802.11b(1Mbps)		Test chann	iel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4924.000	51.48	-4.03	47.45	74	-26.55	peak	Н	1.5	58
4924.000	37.66	-4.03	33.63	54	-20.37	AVG	Н	1.5	7
7386.000	50.70	1.66	52.36	74	-21.64	peak	Н	1.5	38
7386.000	37.76	1.66	39.42	54	-14.58	AVG	Н	1.5	26
4924.000	54.46	-4.03	50.43	74	-23.57	peak	V	1.5	149
4924.000	37.56	-4.03	33.53	54	-20.47	AVG	V	1.5	153
7386.000	49.77	1.66	51.43	74	-22.57	peak	V	1.5	6
7386.000	36.26	1.66	37.92	54	-16.08	AVG	V	1.5	190

Remark:

- 1) The 1Mbps of rate of 802.11b is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Test mode:		802.110	g(6Mbps)	Test chann	iel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4824.000	52.89	-4.26	48.63	74	-25.37	peak	Н	1.5	177
4824.000	37.87	-4.26	33.61	54	-20.39	AVG	Н	1.5	226
7236.000	51.43	1.18	52.61	74	-21.39	peak	Н	1.5	230
7236.000	38.87	1.18	40.05	54	-13.95	AVG	Η	1.5	235
4824.000	56.13	-4.26	51.87	74	-22.13	peak	V	1.5	306
4824.000	39.19	-4.26	34.93	54	-19.07	AVG	V	1.5	229
7236.000	51.89	1.18	53.07	74	-20.93	peak	V	1.5	151
7236.000	36.79	1.18	37.97	54	-16.03	AVG	V	1.5	169

Test mode:		802.110	g(6Mbps)	Test chann	iel:	Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4874.000	52.04	-4.12	47.92	74	-26.08	peak	Н	1.5	345
4874.000	37.35	-4.12	33.23	54	-20.77	AVG	Н	1.5	198
7311.000	49.14	1.46	50.60	74	-23.40	peak	Н	1.5	105
7311.000	36.79	1.46	38.25	54	-15.75	AVG	Н	1.5	175
4874.000	53.34	-4.12	49.22	74	-24.78	peak	V	1.5	347
4874.000	37.80	-4.12	33.68	54	-20.32	AVG	V	1.5	206
7311.000	49.52	1.46	50.98	74	-23.02	peak	V	1.5	33
7311.000	36.63	1.46	38.09	54	-15.91	AVG	V	1.5	198



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Test mode:		802.110	g(6Mbps)	Test chann	nel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4924.000	52.52	-4.03	48.49	74	-25.51	peak	Н	1.5	238
4924.000	37.41	-4.03	33.38	54	-20.62	AVG	Н	1.5	132
7386.000	50.16	1.66	51.82	74	-22.18	peak	Н	1.5	1
7386.000	37.42	1.66	39.08	54	-14.92	AVG	Н	1.5	228
4924.000	54.96	-4.03	50.93	74	-23.07	peak	V	1.5	164
4924.000	37.54	-4.03	33.51	54	-20.49	AVG	V	1.5	285
7386.000	49.78	1.66	51.44	74	-22.56	peak	V	1.5	67
7386.000	36.09	1.66	37.75	54	-16.25	AVG	V	1.5	62

Remark:

- 1) The 6Mbps of rate of 802.11g is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Test mode:		802.11n2	20(6.5Mbps)	Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detecto	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	r Type	H/V	(m)	(Degree)
4824.000	53.06	-4.26	48.80	74	-25.20	peak	Н	1.5	6
4824.000	37.15	-4.26	32.89	54	-21.11	AVG	Η	1.5	273
7236.000	52.13	1.18	53.31	74	-20.69	peak	Н	1.5	270
7236.000	38.37	1.18	39.55	54	-14.45	AVG	Η	1.5	18
4824.000	56.10	-4.26	51.84	74	-22.16	peak	>	1.5	144
4824.000	39.68	-4.26	35.42	54	-18.58	AVG	V	1.5	214
7236.000	51.28	1.18	52.46	74	-21.54	peak	V	1.5	27
7236.000	36.25	1.18	37.43	54	-16.57	AVG	V	1.5	325

Test mode:		802.11n2	20(6.5Mbps)	Test chann	nel:	Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4874.000	51.95	-4.12	47.83	74	-26.17	peak	Н	1.5	248
4874.000	37.75	-4.12	33.63	54	-20.37	AVG	Н	1.5	190
7311.000	49.76	1.46	51.22	74	-22.78	peak	Н	1.5	151
7311.000	35.08	1.46	36.54	54	-17.46	AVG	Ι	1.5	134
4874.000	53.65	-4.12	49.53	74	-24.47	peak	>	1.5	263
4874.000	36.94	-4.12	32.82	54	-21.18	AVG	>	1.5	352
7311.000	48.83	1.46	50.29	74	-23.71	peak	V	1.5	312
7311.000	35.55	1.46	37.01	54	-16.99	AVG	V	1.5	107



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Test mode:		802.11n2	20(6.5Mbps)	Test chann	nel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4924.000	53.23	-4.03	49.20	74	-24.80	peak	Н	1.5	284
4924.000	38.12	-4.03	34.09	54	-19.91	AVG	Н	1.5	220
7386.000	49.98	1.66	51.64	74	-22.36	peak	Н	1.5	94
7386.000	36.25	1.66	37.91	54	-16.09	AVG	Н	1.5	24
4924.000	54.50	-4.03	50.47	74	-23.53	peak	V	1.5	301
4924.000	37.77	-4.03	33.74	54	-20.26	AVG	V	1.5	152
7386.000	49.82	1.66	51.48	74	-22.52	peak	V	1.5	224
7386.000	36.17	1.66	37.83	54	-16.17	AVG	V	1.5	189

Remark:

- 1) The MCS0 of rate of 802.11n20 is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Test mode:		802.11n4	0(13.5Mbps)	Test chann	iel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detecto	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	r Type	H/V	(m)	(Degree)
4824.000	52.67	-4.24	48.43	74	-25.57	peak	Н	1.5	28
4824.000	36.09	-4.24	31.85	54	-22.15	AVG	Η	1.5	44
7236.000	50.64	1.2	51.84	74	-22.16	peak	Н	1.5	51
7236.000	37.28	1.2	38.48	54	-15.52	AVG	Н	1.5	199
4824.000	56.09	-4.24	51.85	74	-22.15	peak	>	1.5	218
4824.000	38.42	-4.24	34.18	54	-19.82	AVG	V	1.5	124
7236.000	51.78	1.2	52.98	74	-21.02	peak	٧	1.5	264
7236.000	36.92	1.2	38.12	54	-15.88	AVG	V	1.5	269

Test mode:		802.11n4	0(13.5Mbps)	Test chann	iel:	Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4874.000	51.50	-4.12	47.38	74	-26.62	peak	Н	1.5	304
4874.000	37.55	-4.12	33.43	54	-20.57	AVG	Н	1.5	8
7311.000	49.15	1.46	50.61	74	-23.39	peak	Н	1.5	245
7311.000	35.21	1.46	36.67	54	-17.33	AVG	Н	1.5	88
4874.000	52.55	-4.12	48.43	74	-25.57	peak	V	1.5	176
4874.000	36.50	-4.12	32.38	54	-21.62	AVG	V	1.5	347
7311.000	48.39	1.46	49.85	74	-24.15	peak	V	1.5	269
7311.000	36.27	1.46	37.73	54	-16.27	AVG	V	1.5	144



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Test mode:		802.11n4	0(13.5Mbps)	Test chann	nel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
4924.000	52.57	-4.05	48.52	74	-25.48	peak	Н	1.5	69
4924.000	36.60	-4.05	32.55	54	-21.45	AVG	Н	1.5	309
7386.000	51.57	1.64	53.21	74	-20.79	peak	Н	1.5	67
7386.000	36.98	1.64	38.62	54	-15.38	AVG	Н	1.5	315
4924.000	55.46	-4.05	51.41	74	-22.59	peak	V	1.5	304
4924.000	38.73	-4.05	34.68	54	-19.32	AVG	V	1.5	78
7386.000	51.29	1.64	52.93	74	-21.07	peak	V	1.5	359
7386.000	35.46	1.64	37.10	54	-16.90	AVG	V	1.5	251

Remark:

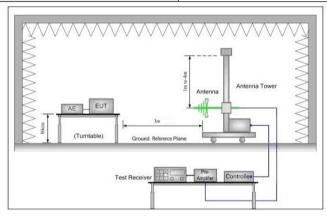
- 1) The MCS0 of rate of 802.11n40 is the worst case.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3n	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Limit:	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1GHz	54.0	Average Value						
74.0 Peak Value									
Test Setup:									



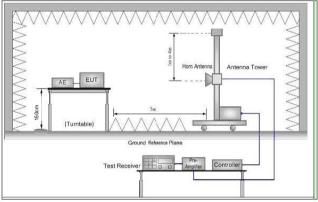


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz:

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.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and



	then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case.
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
	Only the worst case is recorded in the report.
Test Results:	Pass



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Test data:

Worse case	mode:	802.11b(1Mbps)	Test chann	nel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	(m)	(Degree)
2390.000	58.68	-9.2	49.48	74	-24.52	peak	Н	1.5	28
2390.000	44.91	-9.2	35.71	54	-18.29	AVG	Н	1.5	175
2400.000	59.66	-9.39	50.27	74	-23.73	peak	Н	1.5	248
2400.000	46.68	-9.39	37.29	54	-16.71	AVG	Н	1.5	202
2390.000	58.94	-9.2	49.74	74	-24.26	peak	V	1.5	101
2390.000	44.90	-9.2	35.70	54	-18.30	AVG	V	1.5	130
2400.000	59.73	-9.39	50.34	74	-23.66	peak	V	1.5	281
2400.000	46.21	-9.39	36.82	54	-17.18	AVG	V	1.5	150

Worse case	mode:	802.11b(1Mbps)	Test chann	nel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2483.500	57.58	-9.29	48.29	74	-25.71	peak	Н	1.5	20
2483.500	43.56	-9.29	34.27	54	-19.73	AVG	Н	1.5	152
2483.500	58.05	-9.29	48.76	74	-25.24	peak	V	1.5	134
2483.500	46.35	-9.29	37.06	54	-16.94	AVG	V	1.5	61



Worse case	mode:	802.11g(6Mbps)	Test chann	iel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2390.000	58.54	-9.2	49.34	74	-24.66	peak	Н	1.5	37
2390.000	44.58	-9.2	35.38	54	-18.62	AVG	Н	1.5	330
2400.000	59.44	-9.39	50.05	74	-23.95	peak	Н	1.5	358
2400.000	45.99	-9.39	36.60	54	-17.40	AVG	Н	1.5	199
2390.000	58.54	-9.2	49.34	74	-24.66	peak	V	1.5	327
2390.000	44.96	-9.2	35.76	54	-18.24	AVG	V	1.5	196
2400.000	59.52	-9.39	50.13	74	-23.87	peak	V	1.5	24
2400.000	46.10	-9.39	36.71	54	-17.29	AVG	V	1.5	171

Worse case	mode:	802.11g(6Mbps)	Test chann	nel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2483.500	57.94	-9.29	48.65	74	-25.35	peak	Н	1.5	112
2483.500	44.44	-9.29	35.15	54	-18.85	AVG	Н	1.5	321
2483.500	57.54	-9.29	48.25	74	-25.75	peak	V	1.5	224
2483.500	45.50	-9.29	36.21	54	-17.79	AVG	V	1.5	261



Worse case	mode:	802.11n(HT	(20)(6.5Mbps)	Test chann	iel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2390.000	58.32	-9.2	49.12	74	-24.88	peak	Н	1.5	338
2390.000	44.87	-9.2	35.67	54	-18.33	AVG	Н	1.5	21
2400.000	60.20	-9.39	50.81	74	-23.19	peak	Н	1.5	14
2400.000	46.26	-9.39	36.87	54	-17.13	AVG	Н	1.5	209
2390.000	58.47	-9.2	49.27	74	-24.73	peak	V	1.5	135
2390.000	44.50	-9.2	35.30	54	-18.70	AVG	V	1.5	42
2400.000	59.96	-9.39	50.57	74	-23.43	peak	V	1.5	0
2400.000	46.81	-9.39	37.42	54	-16.58	AVG	V	1.5	79

Worse case	mode:	802.11n(HT	20)(6.5Mbps)	Test chann	el:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2483.500	57.63	-9.29	48.34	74	-25.66	peak	Н	1.5	59
2483.500	43.97	-9.29	34.68	54	-19.32	AVG	Н	1.5	64
2483.500	58.26	-9.29	48.97	74	-25.03	peak	V	1.5	323
2483.500	46.18	-9.29	36.89	54	-17.11	AVG	V	1.5	141



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Worse case	mode:	802.11n(HT	(40)(13.5Mbps)	Test chann	el:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2390.000	59.24	-9.2	50.04	74	-23.96	peak	Н	1.5	238
2390.000	44.36	-9.2	35.16	54	-18.84	AVG	Н	1.5	149
2400.000	59.35	-9.39	49.96	74	-24.04	peak	Н	1.5	153
2400.000	46.33	-9.39	36.94	54	-17.06	AVG	Н	1.5	118
2390.000	58.87	-9.2	49.67	74	-24.33	peak	V	1.5	127
2390.000	44.53	-9.2	35.33	54	-18.67	AVG	V	1.5	245
2400.000	59.58	-9.39	50.19	74	-23.81	peak	V	1.5	221
2400.000	46.97	-9.39	37.58	54	-16.42	AVG	V	1.5	223

Worse case	mode:	802.11n(HT	40)(13.5Mbps)	Test chann	iel:	Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	(m)	(Degree)
2483.500	58.05	-9.29	48.76	74	-25.24	peak	Н	1.5	13
2483.500	43.51	-9.29	34.22	54	-19.78	AVG	Н	1.5	321
2483.500	57.60	-9.29	48.31	74	-25.69	peak	V	1.5	82
2483.500	46.23	-9.29	36.94	54	-17.06	AVG	V	1.5	113

Note:

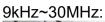
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

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6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission





30MHz~1GHz:

