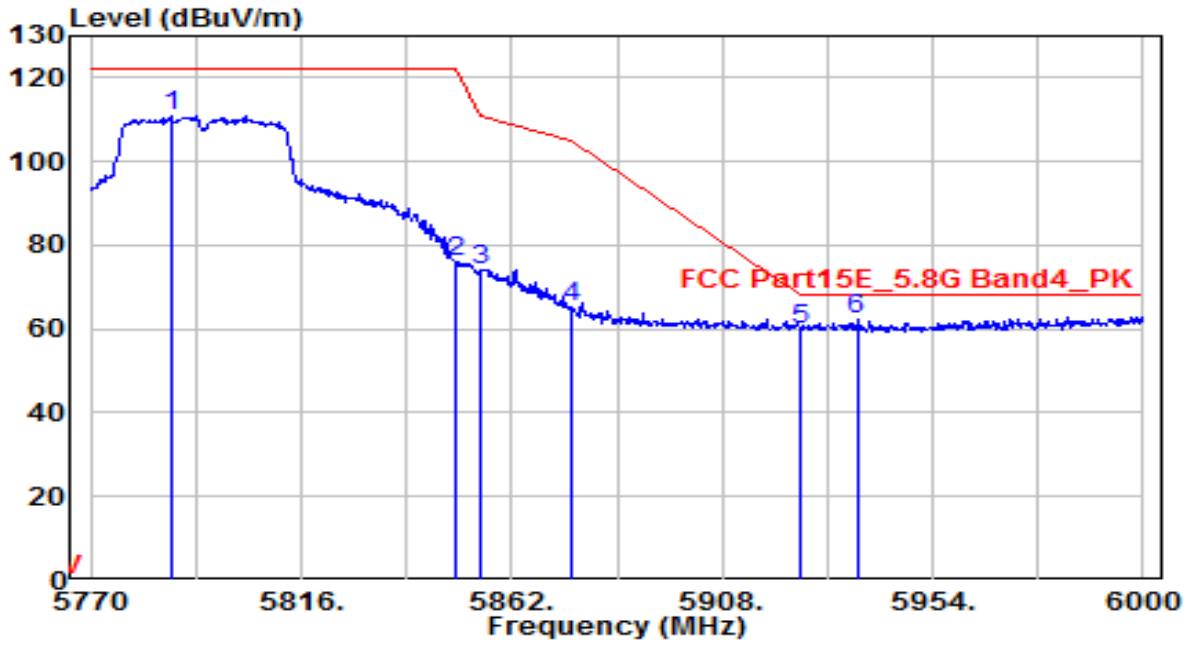
EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-40MHz_TX_Band4_CH 159_SCAN ANT 0	Test Voltage	AC 120V/60Hz

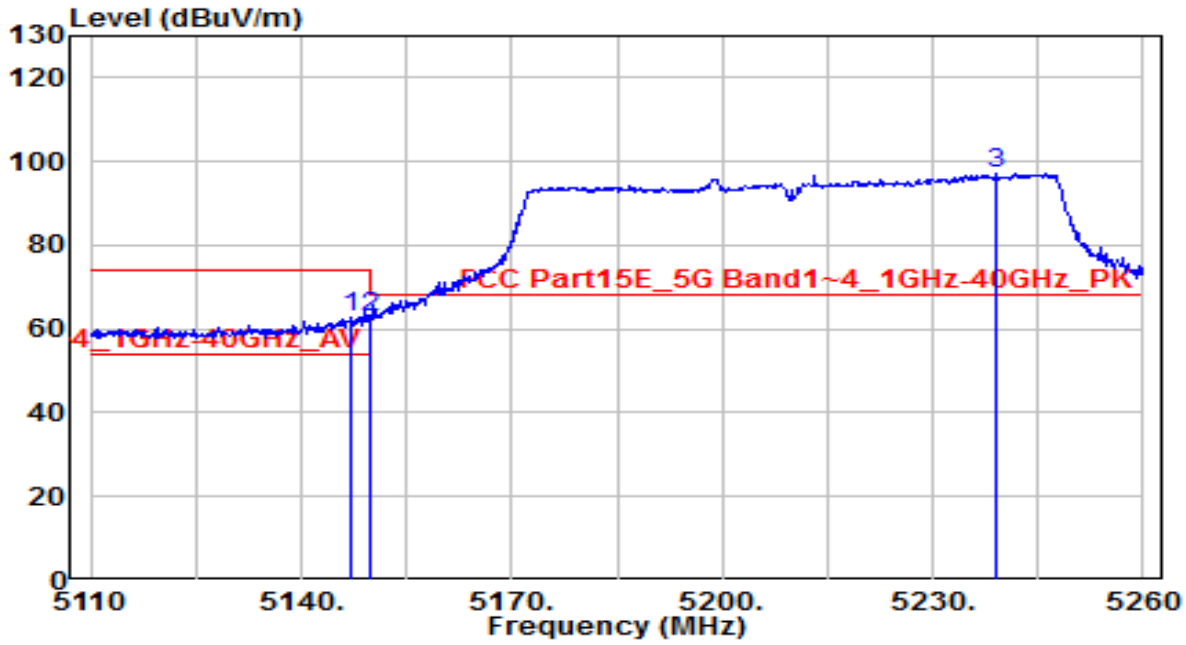


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5787.480	105.27	5.82	111.09	N/A	N/A	160	160	Peak
2		5850.000	70.01	6.04	76.05	-46.15	122.20	160	160	Peak
3		5855.000	67.84	6.06	73.90	-36.90	110.80	160	160	Peak
4		5875.000	58.89	6.13	65.02	-40.18	105.20	160	160	Peak
5		5925.000	53.56	6.32	59.87	-8.33	68.20	160	160	Peak
6	*	5937.440	56.10	6.36	62.47	-5.73	68.20	160	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_SCAN ANT 0	Test Voltage	AC 120V/60Hz

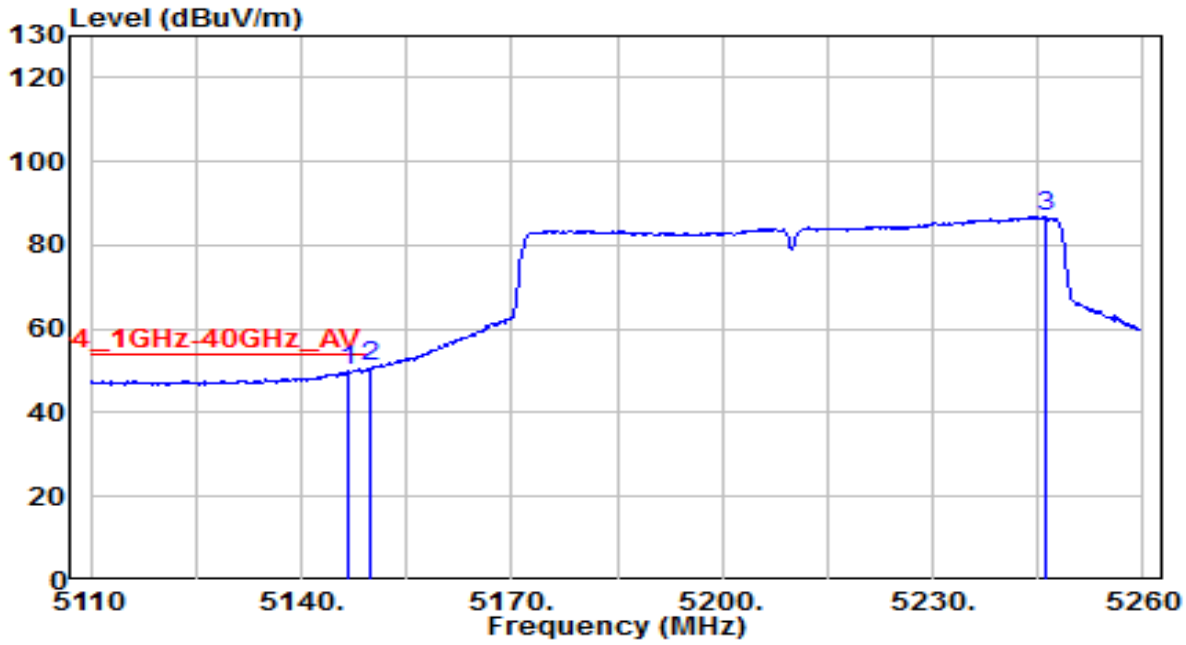


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5147.050	58.82	4.19	63.01	-10.99	74.00	100	190	Peak
2		5150.000	58.64	4.20	62.83	-11.17	74.00	100	190	Peak
3		5239.000	92.89	4.34	97.23	N/A	N/A	100	190	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_SCAN ANT 0	Test Voltage	AC 120V/60Hz

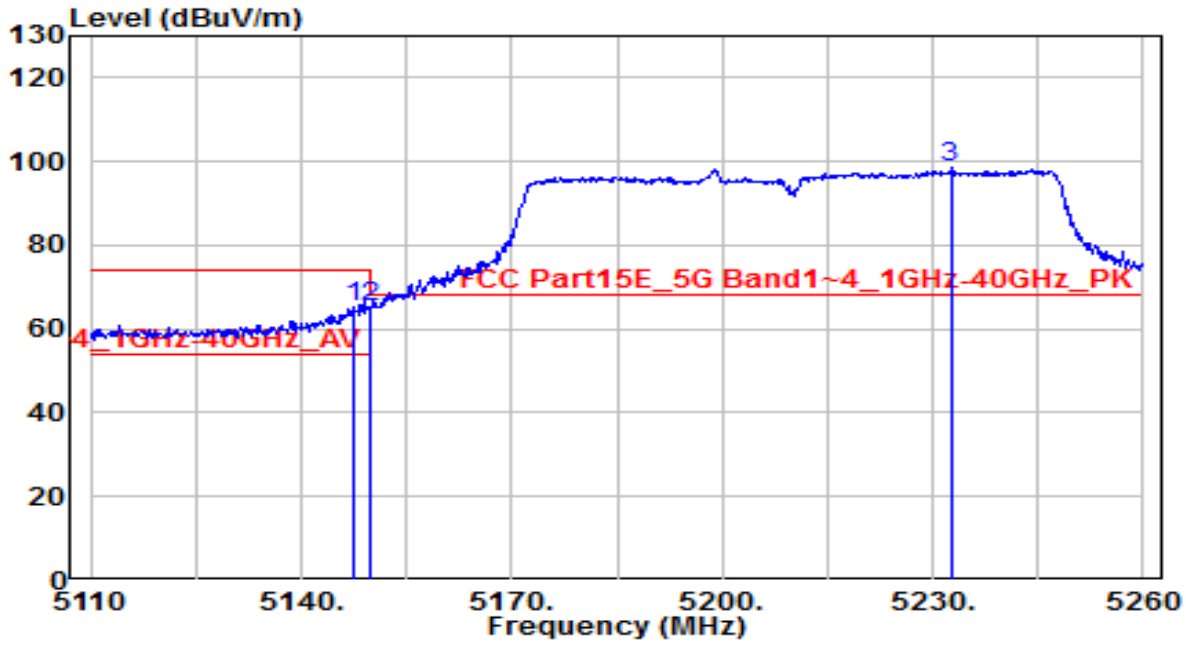


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5146.600	45.79	4.19	49.99	-4.01	54.00	100	190	Average
2	*	5150.000	46.81	4.20	51.01	-2.99	54.00	100	190	Average
3		5246.050	82.42	4.35	86.78	N/A	N/A	100	190	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_SCAN ANT 0	Test Voltage	AC 120V/60Hz

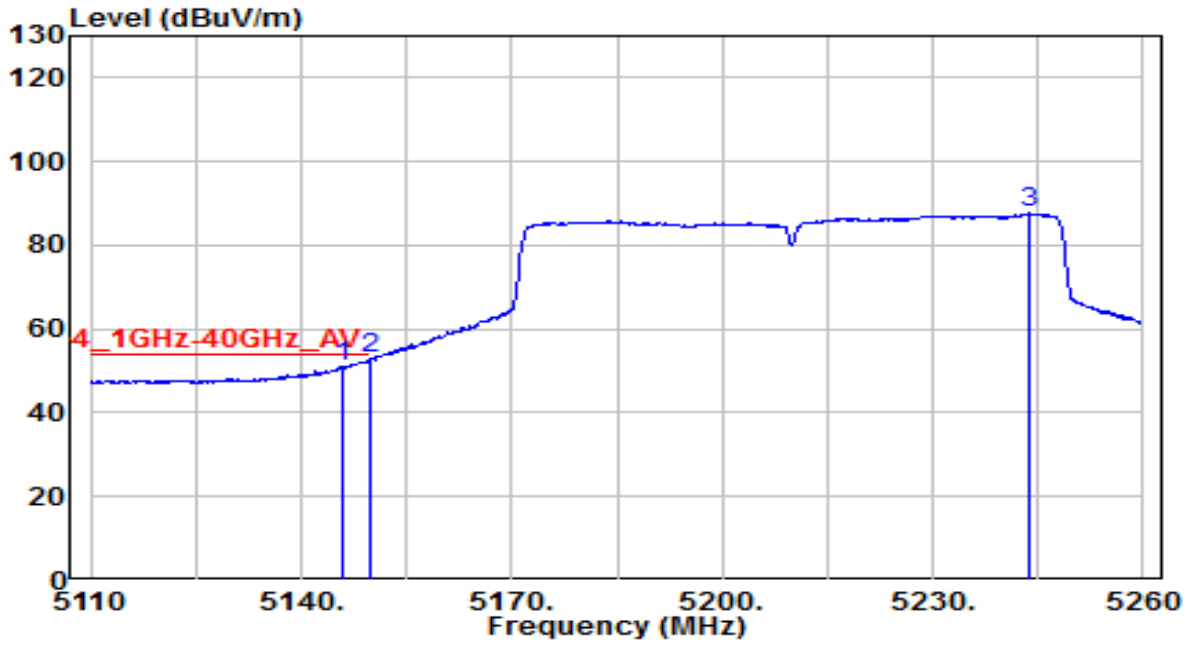


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5147.500	60.98	4.19	65.17	-8.83	74.00	150	170	Peak
2	*	5150.000	61.02	4.20	65.21	-8.79	74.00	150	170	Peak
3		5232.550	94.28	4.33	98.61	N/A	N/A	150	170	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-80MHz_TX_Band1_CH 42_SCAN ANT 0	Test Voltage	AC 120V/60Hz

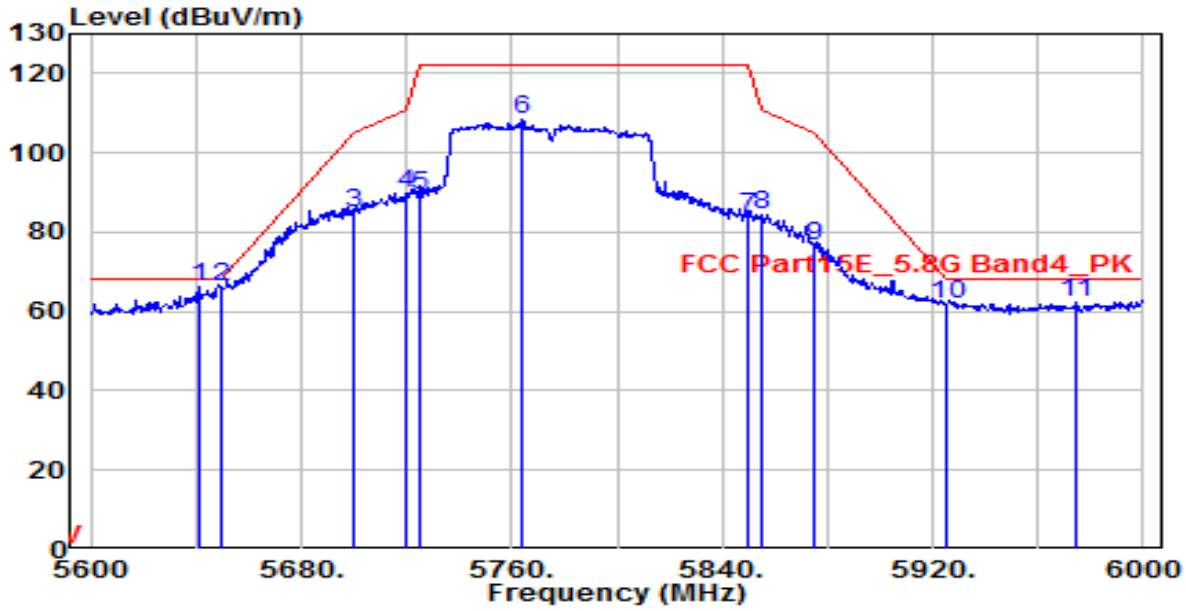


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5146.000	46.62	4.19	50.81	-3.19	54.00	150	170	Average
2	*	5150.000	48.67	4.20	52.86	-1.14	54.00	150	170	Average
3		5243.800	83.32	4.35	87.67	N/A	N/A	150	170	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-80MHz_TX_Band4_CH 155_SCAN ANT 0	Test Voltage	AC 120V/60Hz

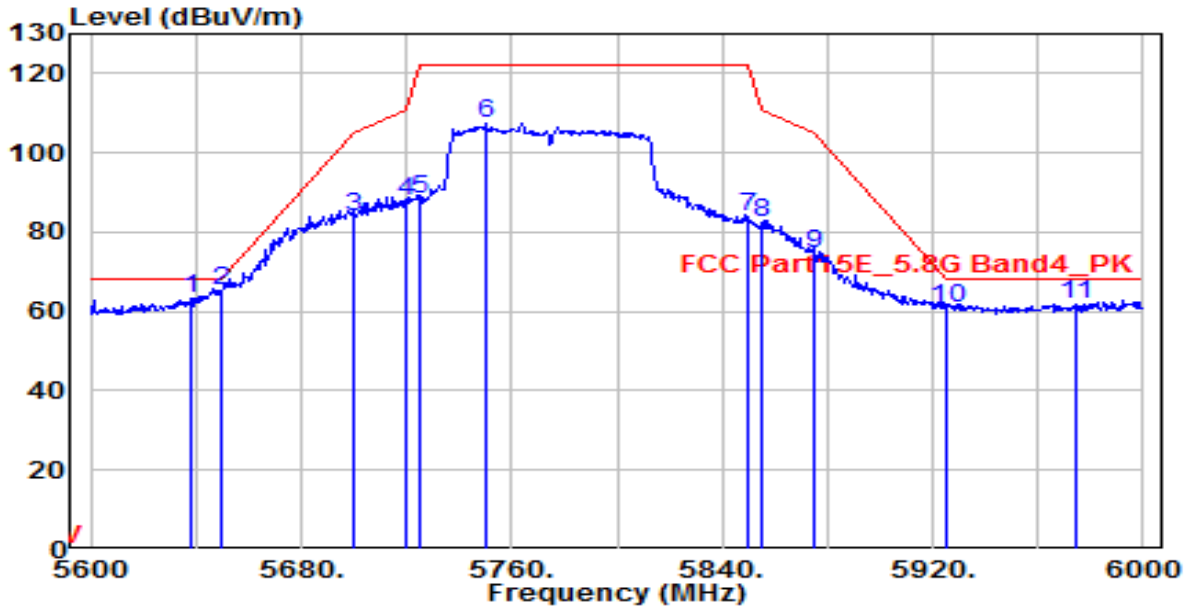


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5640.800	61.01	5.28	66.29	-1.91	68.20	325	115	Peak
2	*	5650.000	61.12	5.32	66.44	-1.76	68.20	325	115	Peak
3		5700.000	79.54	5.50	85.04	-20.16	105.20	325	115	Peak
4		5720.000	83.98	5.57	89.55	-21.25	110.80	325	115	Peak
5		5725.000	83.52	5.59	89.11	-33.09	122.20	325	115	Peak
6		5764.000	102.47	5.73	108.20	N/A	N/A	325	115	Peak
7		5850.000	77.78	6.04	83.82	-38.38	122.20	325	115	Peak
8		5855.000	78.07	6.06	84.14	-26.66	110.80	325	115	Peak
9		5875.000	70.25	6.13	76.39	-28.81	105.20	325	115	Peak
10		5925.000	55.72	6.32	62.04	-6.16	68.20	325	115	Peak
11		5974.000	55.94	6.50	62.44	-5.76	68.20	325	115	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	OAW-AP1351	Date of Test	2021-05-25
Factor	BBHA 9120D	Temp. / Humidity	24°C /56%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	802.11ac-80MHz_TX_Band4_CH 155_SCAN ANT 0	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5638.000	57.89	5.27	63.16	-5.04	68.20	150	160	Peak
2	*	5650.000	59.76	5.32	65.08	-3.12	68.20	150	160	Peak
3		5700.000	78.46	5.50	83.96	-21.24	105.20	150	160	Peak
4		5720.000	82.10	5.57	87.68	-23.12	110.80	150	160	Peak
5		5725.000	82.68	5.59	88.27	-33.93	122.20	150	160	Peak
6		5750.000	101.56	5.68	107.24	N/A	N/A	150	160	Peak
7		5850.000	77.93	6.04	83.97	-38.23	122.20	150	160	Peak
8		5855.000	76.27	6.06	82.34	-28.46	110.80	150	160	Peak
9		5875.000	68.43	6.13	74.57	-30.63	105.20	150	160	Peak
10		5925.000	54.64	6.32	60.96	-7.24	68.20	150	160	Peak
11		5974.000	55.13	6.50	61.63	-6.57	68.20	150	160	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

6.10. AC Conducted Emissions Measurement

6.10.1.TestLimit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

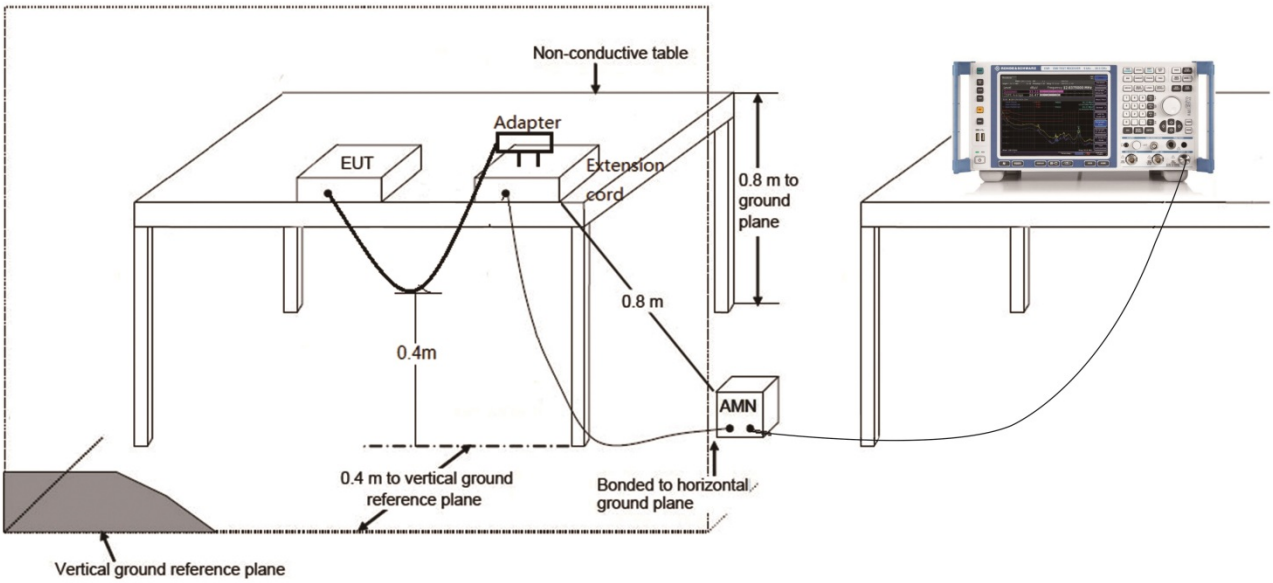
6.10.2.Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements.The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

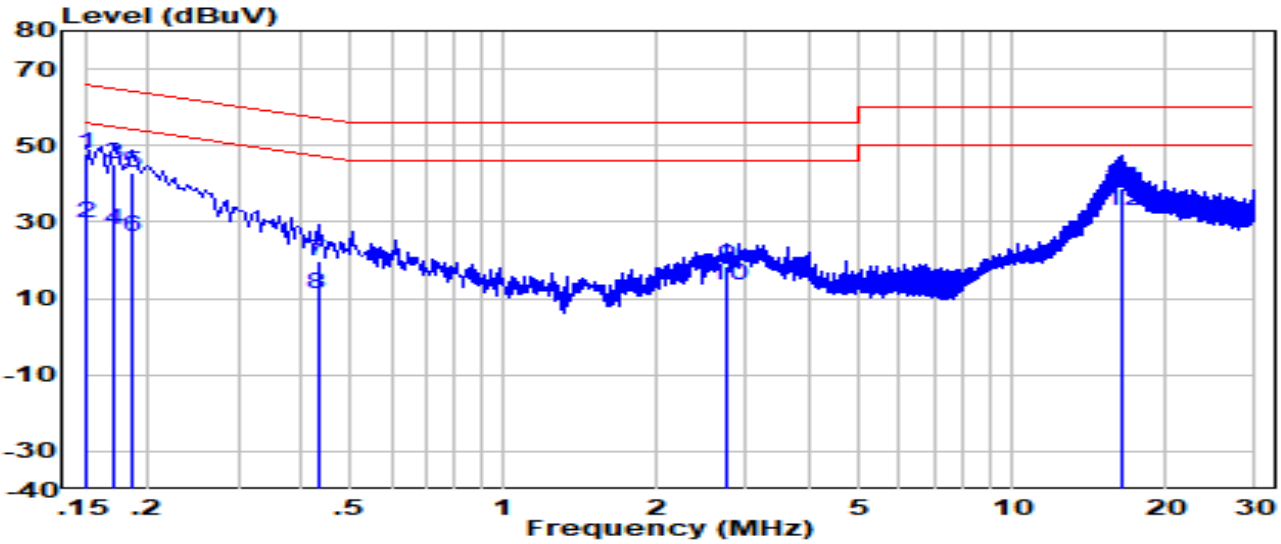
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

6.10.3.Test Setup



6.10.4.Test Result

EUT	OAW-AP1351	Date of Test	2021-06-12
Factor	CE_ENV216-L1 (Filter ON)_2020	Temp. / Humidity	21.9°C /58.4%
Polarity	Line1	Site / Test Engineer	SR2 / Peter
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1+2+3	Test Voltage	120V/60Hz

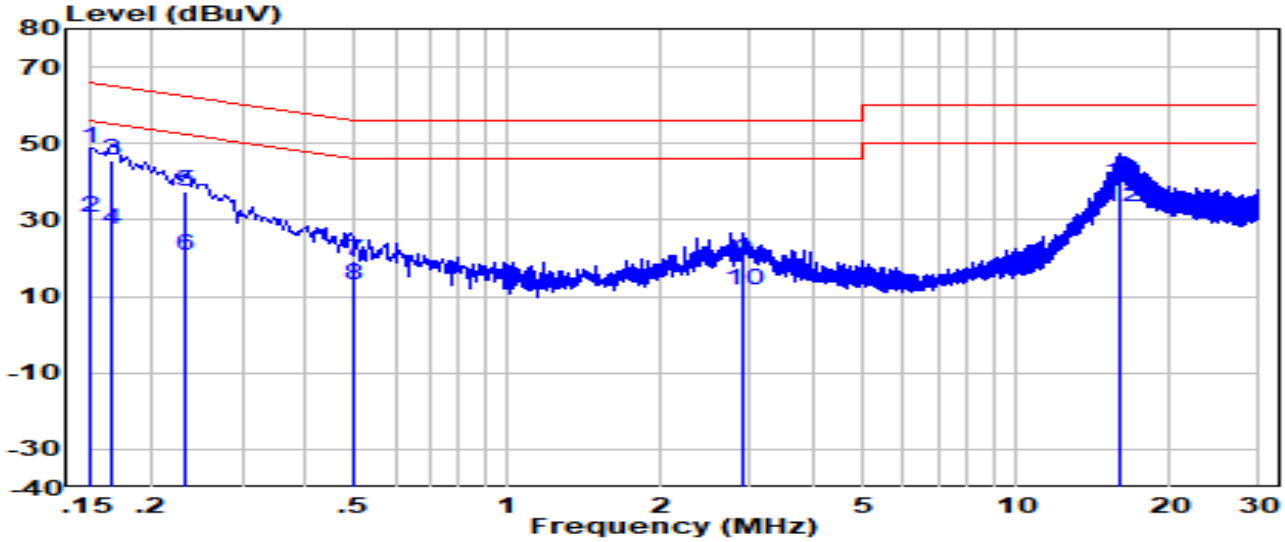


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.150	38.40	9.61	48.01	-17.99	66.00	QP
2		0.150	20.30	9.61	29.91	-36.09	66.00	Average
3		0.170	35.71	9.61	45.32	-19.64	64.96	QP
4		0.170	18.11	9.61	27.72	-37.24	64.96	Average
5		0.186	33.42	9.61	43.03	-21.18	64.21	QP
6		0.186	16.72	9.61	26.33	-37.88	64.21	Average
7		0.430	10.36	9.63	19.98	-37.27	57.25	QP
8		0.430	1.46	9.63	11.08	-46.17	57.25	Average
9		2.740	8.69	9.70	18.39	-37.61	56.00	QP
10		2.740	3.59	9.70	13.29	-42.71	56.00	Average
11		16.460	28.89	9.95	38.84	-21.16	60.00	QP
12		16.460	22.89	9.95	32.84	-27.16	60.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	OAW-AP1351	Date of Test	2021-06-12
Factor	CE_ENV216-N (Filter ON)_2020	Temp. / Humidity	21.9°C /58.4%
Polarity	Neutral	Site / Test Engineer	SR2 / Peter
Test Mode	802.11n-20MHz_TX_Band1_CH 36_ANT 0+1+2+3	Test Voltage	120V/60Hz

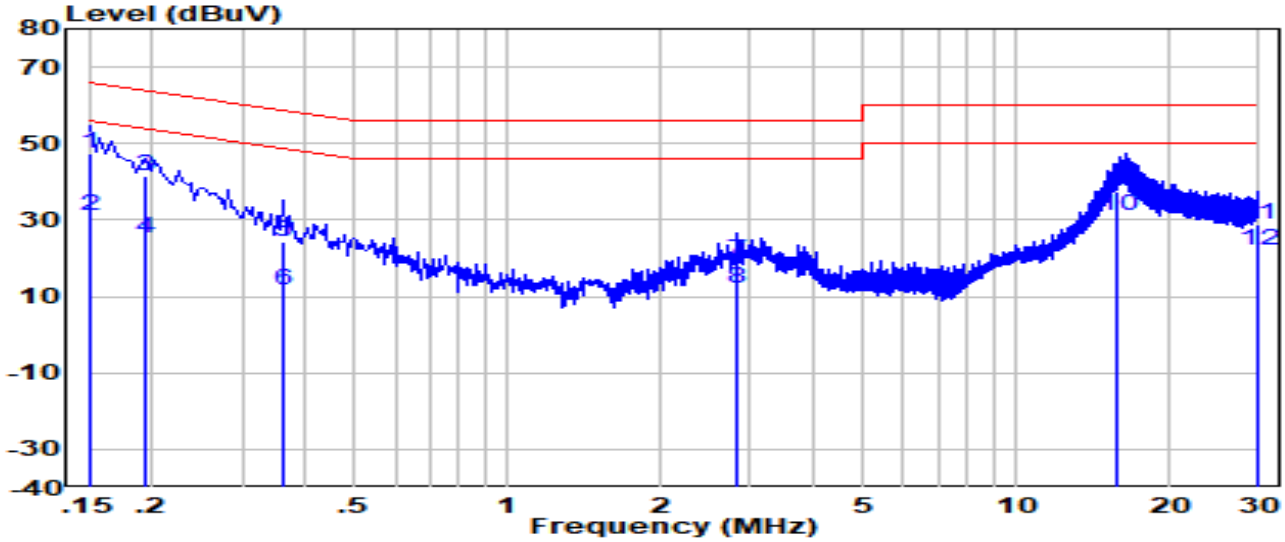


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.150	39.08	9.62	48.70	-17.30	66.00	QP
2		0.150	21.18	9.62	30.80	-35.20	66.00	Average
3		0.166	36.19	9.62	45.81	-19.35	65.16	QP
4		0.166	17.89	9.62	27.51	-37.65	65.16	Average
5		0.231	27.61	9.62	37.23	-25.18	62.41	QP
6		0.231	11.21	9.62	20.83	-41.58	62.41	Average
7		0.497	9.65	9.64	19.29	-36.76	56.05	QP
8		0.497	3.55	9.64	13.19	-42.86	56.05	Average
9		2.890	9.68	9.71	19.39	-36.61	56.00	QP
10		2.890	1.88	9.71	11.59	-44.41	56.00	Average
11		16.020	29.52	9.99	39.51	-20.49	60.00	QP
12		16.020	23.32	9.99	33.31	-26.69	60.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	OAW-AP1351	Date of Test	2021-06-12
Factor	CE_ENV216-L1 (Filter ON)_2020	Temp. / Humidity	21.9°C /58.4%
Polarity	Line1	Site / Test Engineer	SR2 / Peter
Test Mode	802.11ax-20MHz_TX_Band3_CH 100_ANT 0+1+2+3+4+5+6+7	Test Voltage	120V/60Hz

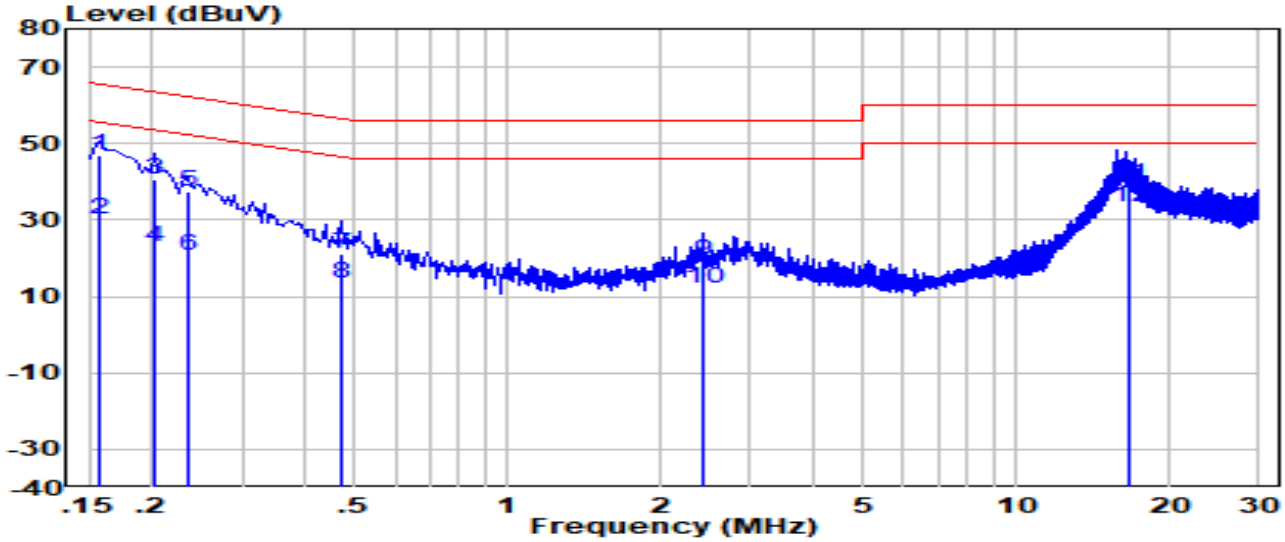


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.150	38.00	9.61	47.61	-18.39	66.00	QP
2		0.150	21.30	9.61	30.91	-35.09	66.00	Average
3		0.194	32.02	9.61	41.64	-22.23	63.86	QP
4		0.194	15.52	9.61	25.14	-38.73	63.86	Average
5		0.362	14.85	9.62	24.47	-34.21	58.68	QP
6		0.362	1.95	9.62	11.57	-47.11	58.68	Average
7		2.830	9.59	9.70	19.29	-36.71	56.00	QP
8		2.830	2.49	9.70	12.19	-43.81	56.00	Average
9		15.740	27.28	9.94	37.22	-22.78	60.00	QP
10		15.740	21.38	9.94	31.32	-28.68	60.00	Average
11		29.870	18.92	10.12	29.04	-30.96	60.00	QP
12		29.870	11.82	10.12	21.94	-38.06	60.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	OAW-AP1351	Date of Test	2021-06-12
Factor	CE_ENV216-N (Filter ON)_2020	Temp. / Humidity	21.9°C /58.4%
Polarity	Neutral	Site / Test Engineer	SR2 / Peter
Test Mode	802.11ax-20MHz_TX_Band3_CH 100_ANT 0+1+2+3+4+5+6+7	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	0.158	37.38	9.62	47.00	-18.56	65.57	QP
2		0.158	20.58	9.62	30.20	-35.36	65.57	Average
3		0.202	30.91	9.62	40.53	-23.00	63.53	QP
4		0.202	13.51	9.62	23.13	-40.40	63.53	Average
5		0.234	27.91	9.62	37.53	-24.77	62.31	QP
6		0.234	11.21	9.62	20.83	-41.47	62.31	Average
7		0.468	11.54	9.64	21.18	-35.37	56.55	QP
8		0.468	3.64	9.64	13.28	-43.27	56.55	Average
9		2.420	9.68	9.70	19.38	-36.62	56.00	QP
10		2.420	2.38	9.70	12.08	-43.92	56.00	Average
11		16.570	29.31	10.00	39.32	-20.68	60.00	QP
12		16.570	23.31	10.00	33.32	-26.68	60.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is compliance with Part 15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2103TW0075-UT” file.

Appendix B - EUT Photograph

Refer to “2103TW0075-UE” file.

Appendix C - Internal Photograph

Refer to “ 2105TW0102-UI” file.