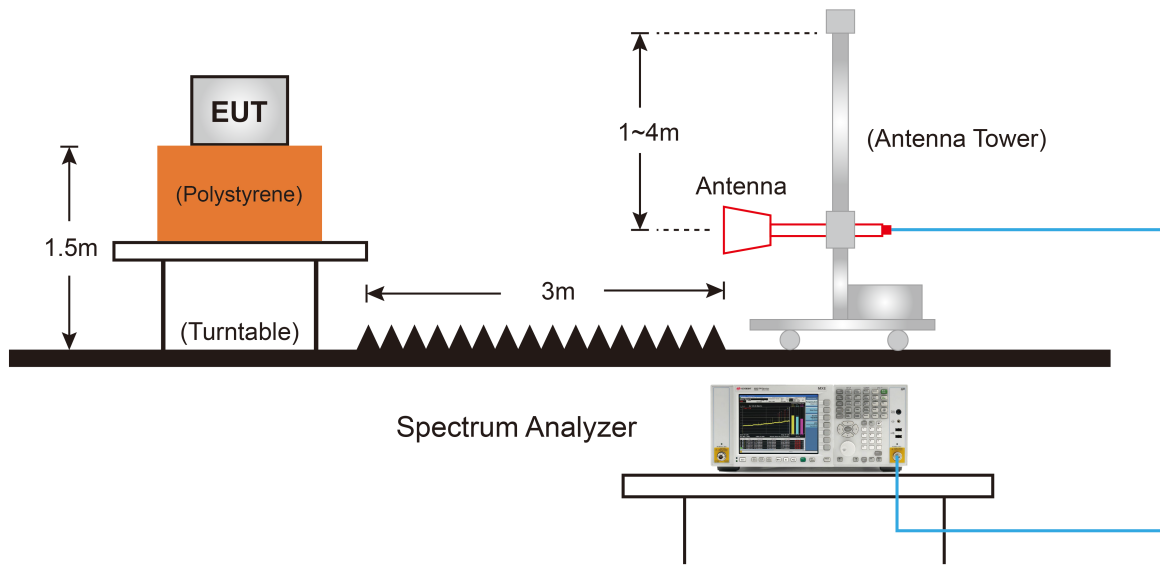
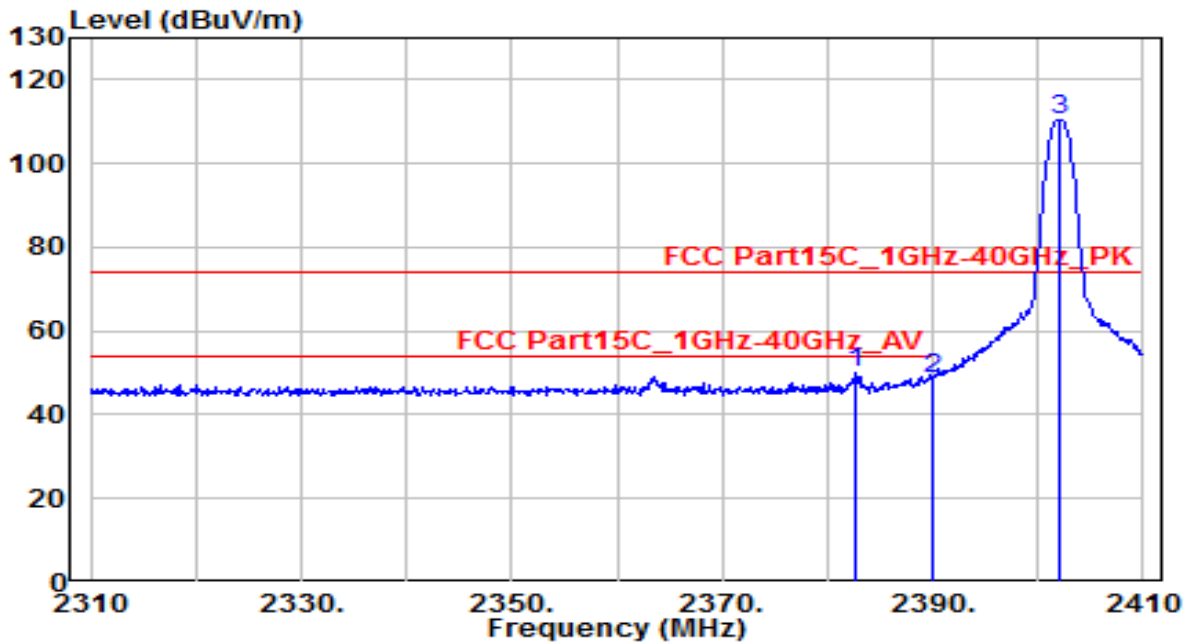


### 6.7.4. Test Setup



### 6.7.5. Test Result

EUT	OAW-AP1351	Date of Test	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	By PoE

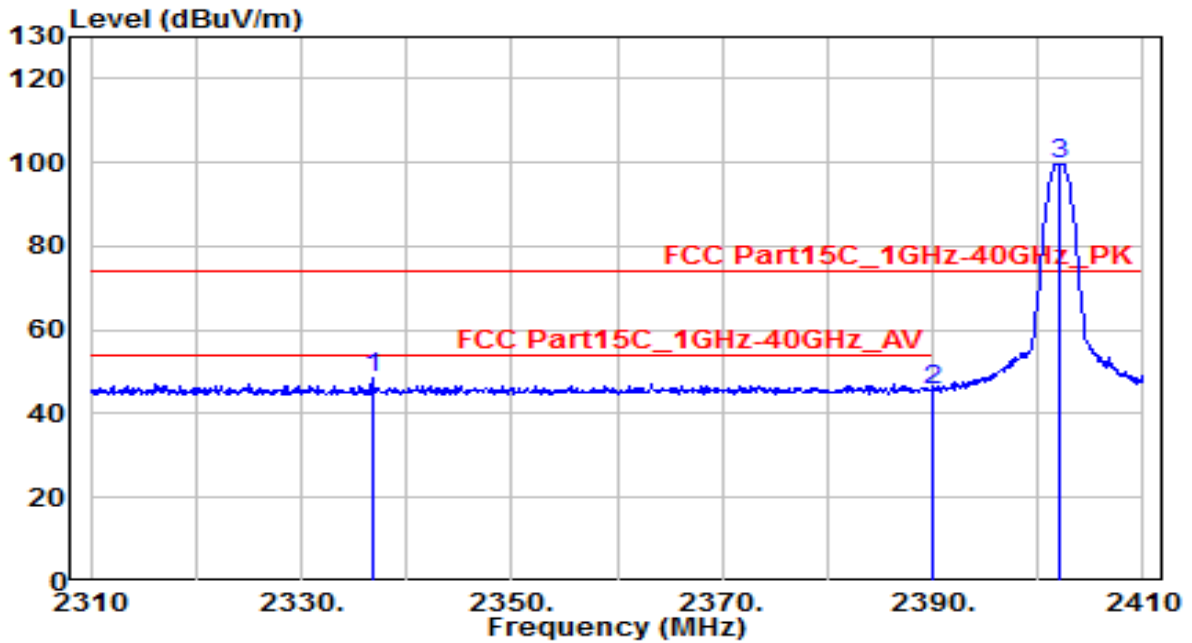


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	51.98	-2.07	49.91	-24.09	74.00	150	120	Peak
2		50.52	-2.04	48.48	-25.52	74.00	150	120	Peak
3		112.23	-1.99	110.23	N/A	N/A	150	120	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 0	Test Voltage	By PoE

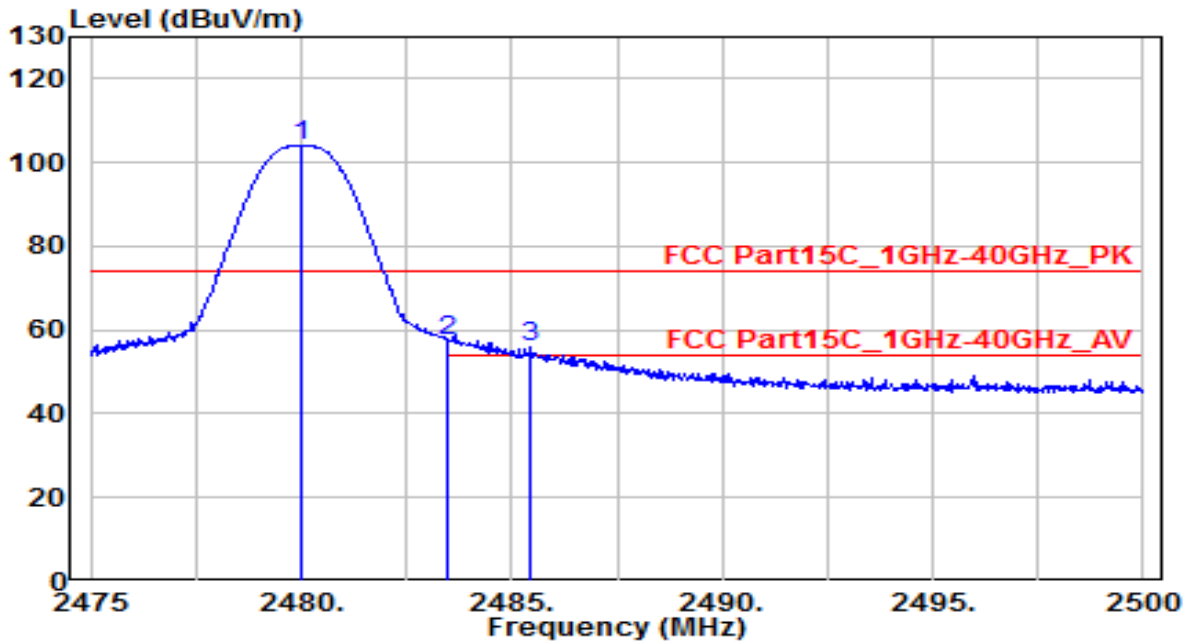


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)	
1	*	2336.700	50.64	-2.24	48.40	-25.60	74.00	150	300	Peak
2		2390.000	47.45	-2.04	45.41	-28.59	74.00	150	300	Peak
3		2402.100	101.73	-1.99	99.74	N/A	N/A	150	300	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	By PoE

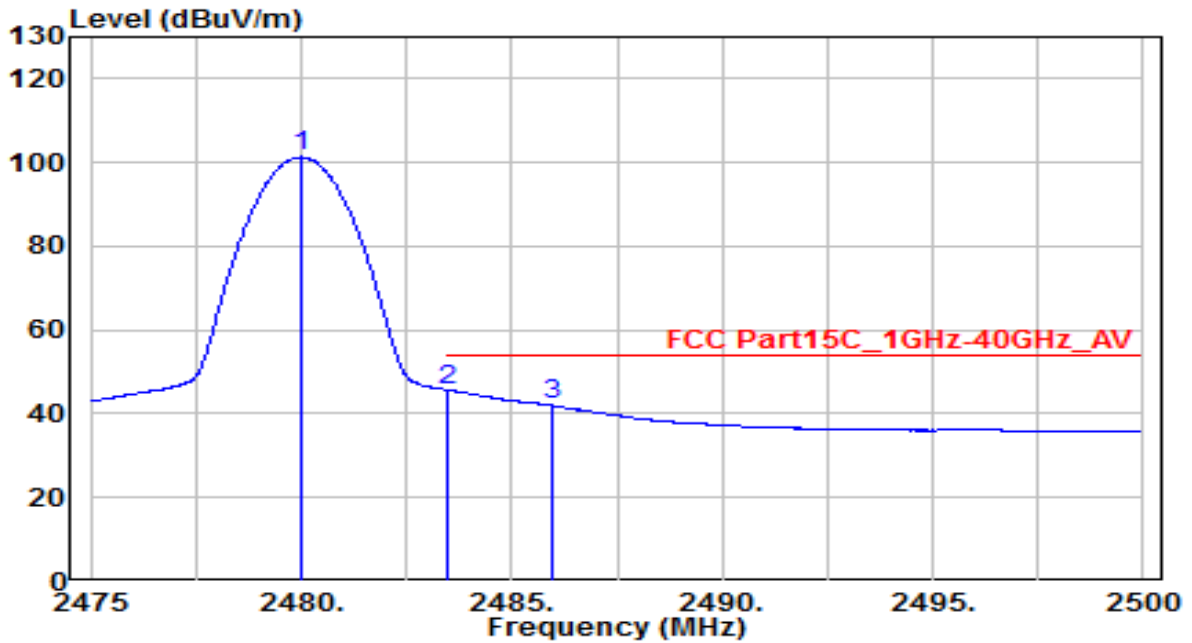


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.000	105.57	-1.70	103.87	N/A	N/A	150	120	Peak
2	* 2483.500	58.92	-1.68	57.24	-16.76	74.00	150	120	Peak
3	2485.450	57.46	-1.68	55.79	-18.21	74.00	150	120	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	By PoE

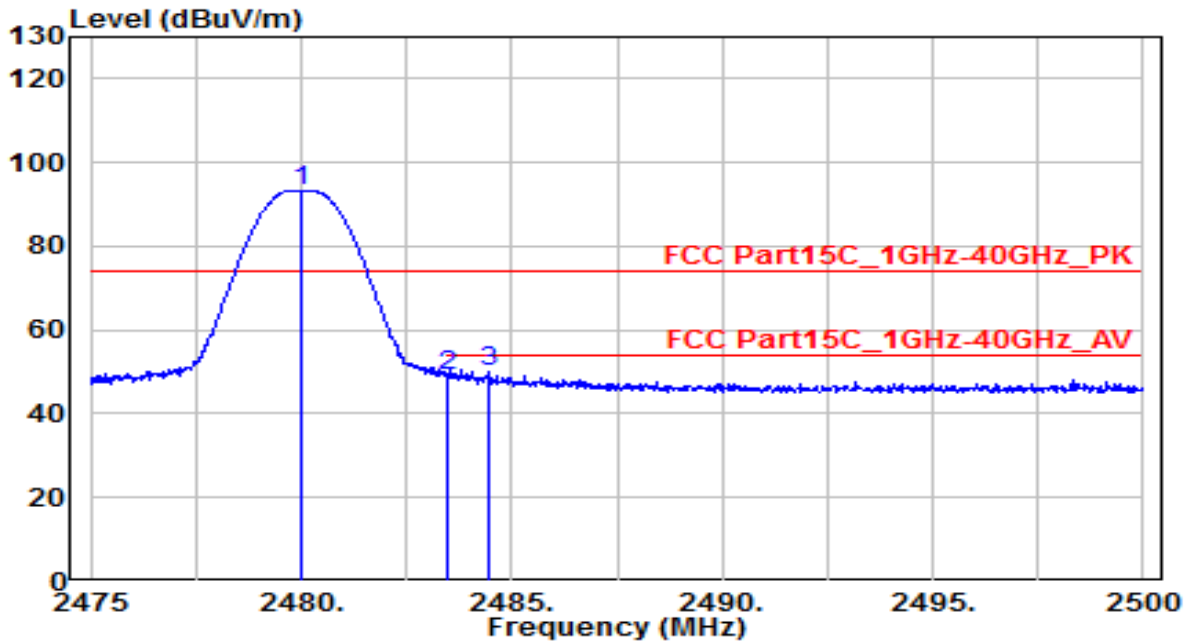


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.975	103.00	-1.70	101.31	N/A	N/A	150	120	Average
2	* 2483.500	47.31	-1.68	45.62	-8.38	54.00	150	120	Average
3	2485.975	43.64	-1.67	41.97	-12.03	54.00	150	120	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_1Mbps_CH 39	Test Voltage	By PoE

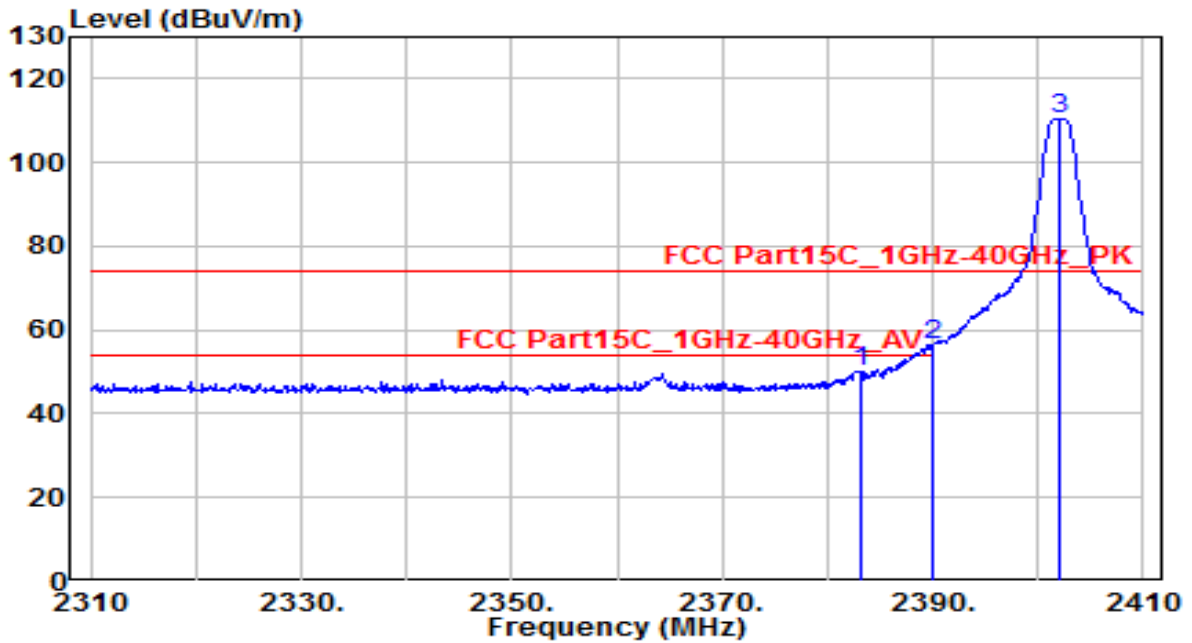


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.975	94.95	-1.70	93.25	N/A	N/A	135	290	Peak
2	2483.500	50.85	-1.68	49.16	-24.84	74.00	135	290	Peak
3	* 2484.475	51.90	-1.68	50.22	-23.78	74.00	135	290	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 0	Test Voltage	By PoE

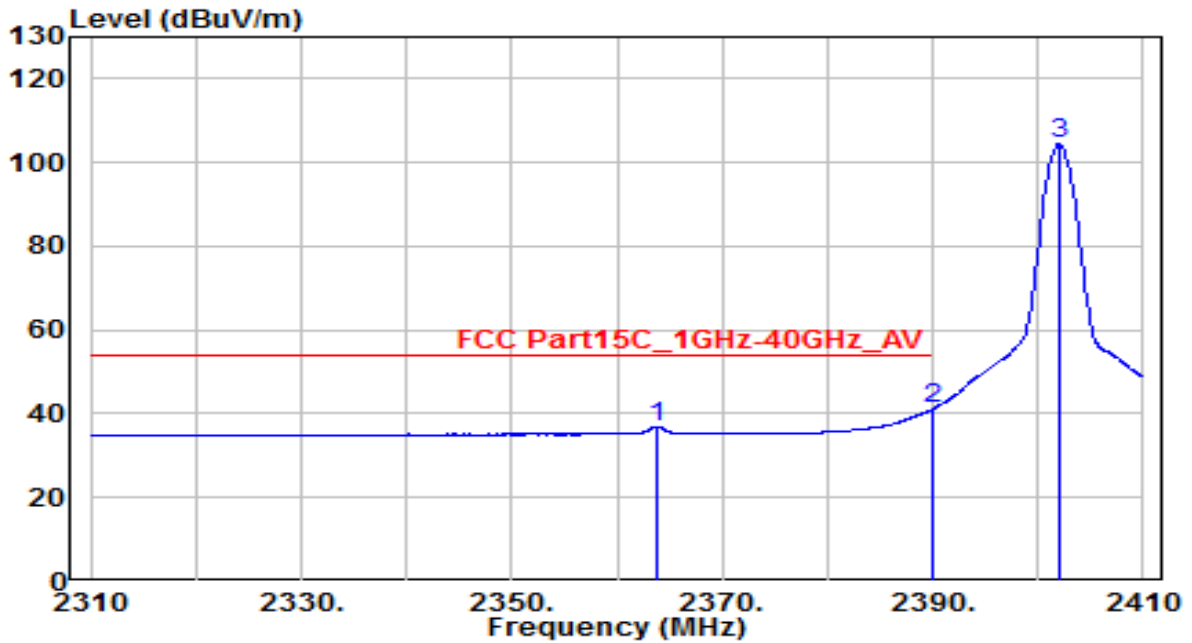


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2383.200	52.33	-2.06	50.27	-23.73	74.00	150	120	Peak
2	* 2390.000	58.61	-2.04	56.57	-17.43	74.00	150	120	Peak
3	2402.100	112.60	-1.99	110.61	N/A	N/A	150	120	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 0	Test Voltage	By PoE



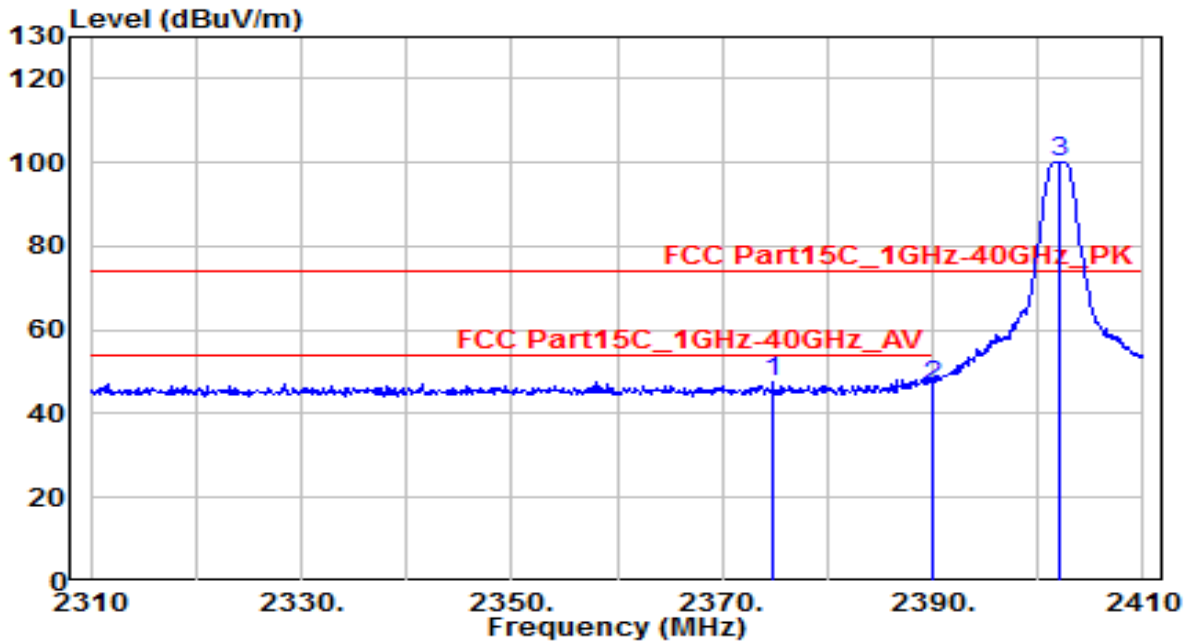
No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2363.700	39.09	-2.14	36.95	-17.05	54.00	150	120	Average
2	* 2390.000	43.15	-2.04	41.11	-12.89	54.00	150	120	Average
3	2402.000	106.32	-1.99	104.32	N/A	N/A	150	120	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 0	Test Voltage	By PoE

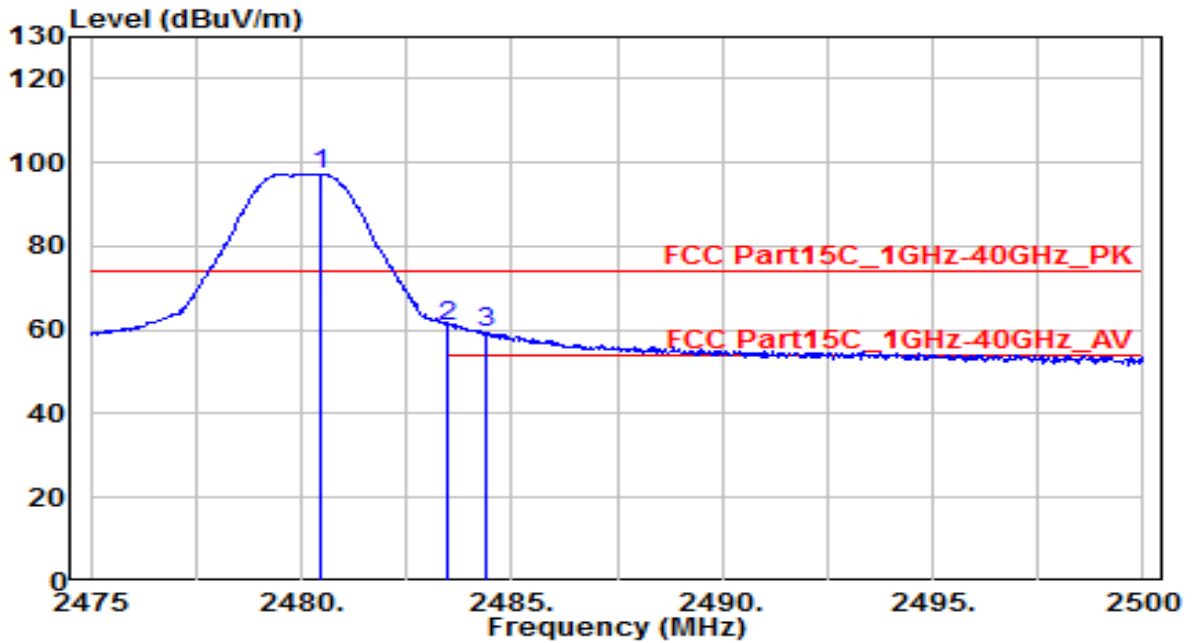


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)	
1	*	2374.800	49.89	-2.10	47.79	-26.21	74.00	150	300	Peak
2		2390.000	48.82	-2.04	46.79	-27.21	74.00	150	300	Peak
3		2402.100	102.31	-1.99	100.32	N/A	N/A	150	300	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 39	Test Voltage	By PoE

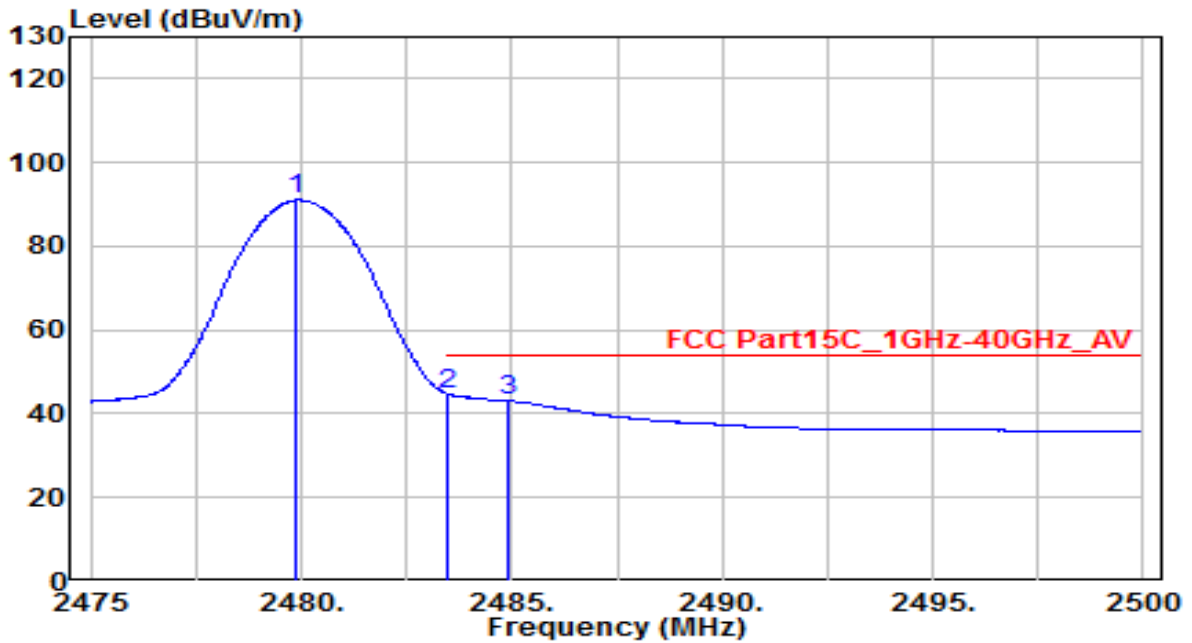


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.475	98.83	-1.69	97.13	N/A	N/A	150	120	Peak
2	* 2483.500	62.57	-1.68	60.89	-13.11	74.00	150	120	Peak
3	2484.400	61.13	-1.68	59.45	-14.55	74.00	150	120	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 39	Test Voltage	By PoE

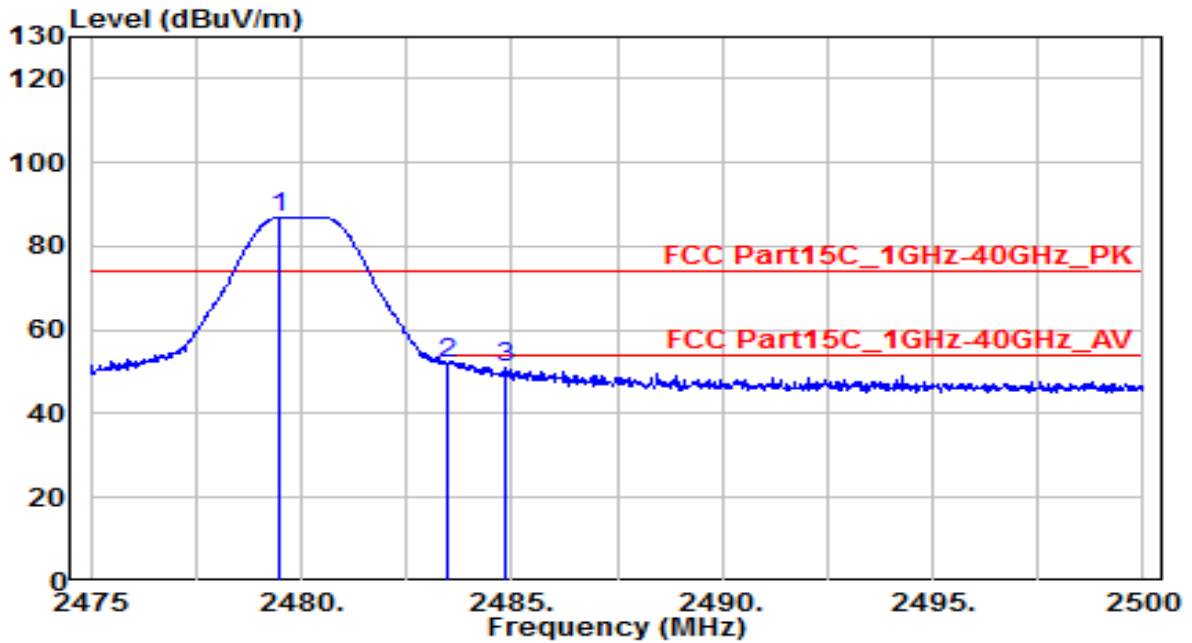


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.900	92.73	-1.70	91.03	N/A	N/A	150	120	Average
2	* 2483.500	46.45	-1.68	44.77	-9.23	54.00	150	120	Average
3	2484.925	44.78	-1.68	43.11	-10.89	54.00	150	120	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Preamplifier(dB).
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	2021-05-18
Factor	BBHA 9120D	Temp. / Humidity	24°C /64%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BLE_TX_2Mbps_CH 39	Test Voltage	By PoE



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	2479.500	88.71	-1.70	87.01	N/A	N/A	135	290	Peak
2	* 2483.500	53.73	-1.68	52.04	-21.96	74.00	135	290	Peak
3	2484.875	52.81	-1.68	51.13	-22.87	74.00	135	290	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m)+ Cable Loss (dB) – Pre-amplifier(dB).
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.

## 6.8. AC Conducted Emissions Measurement

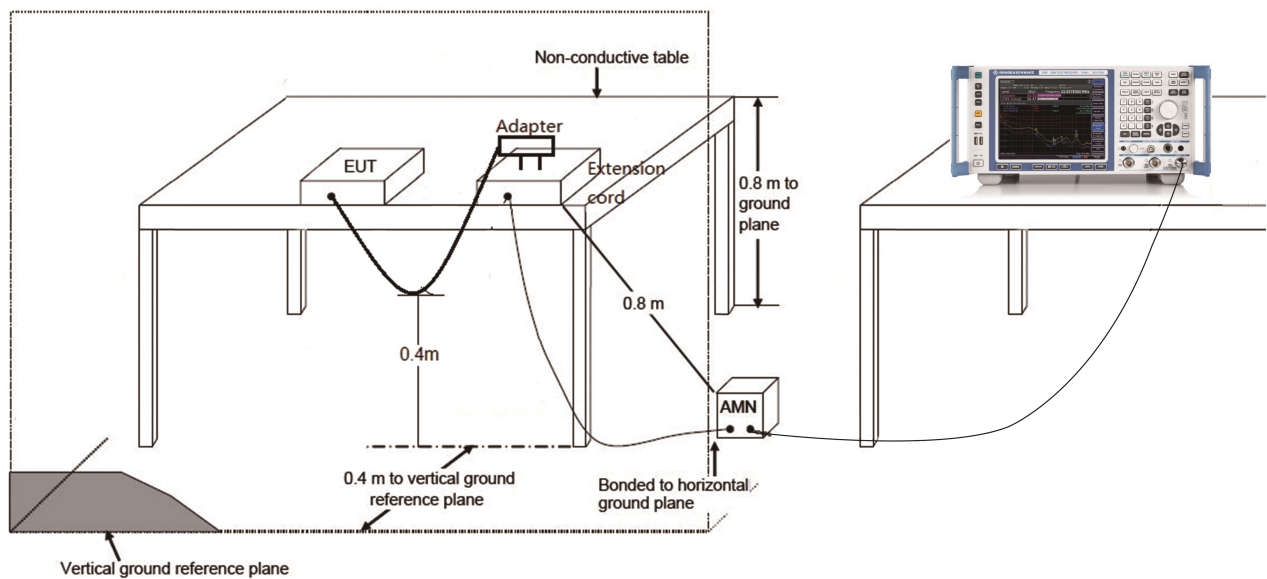
### 6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
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.

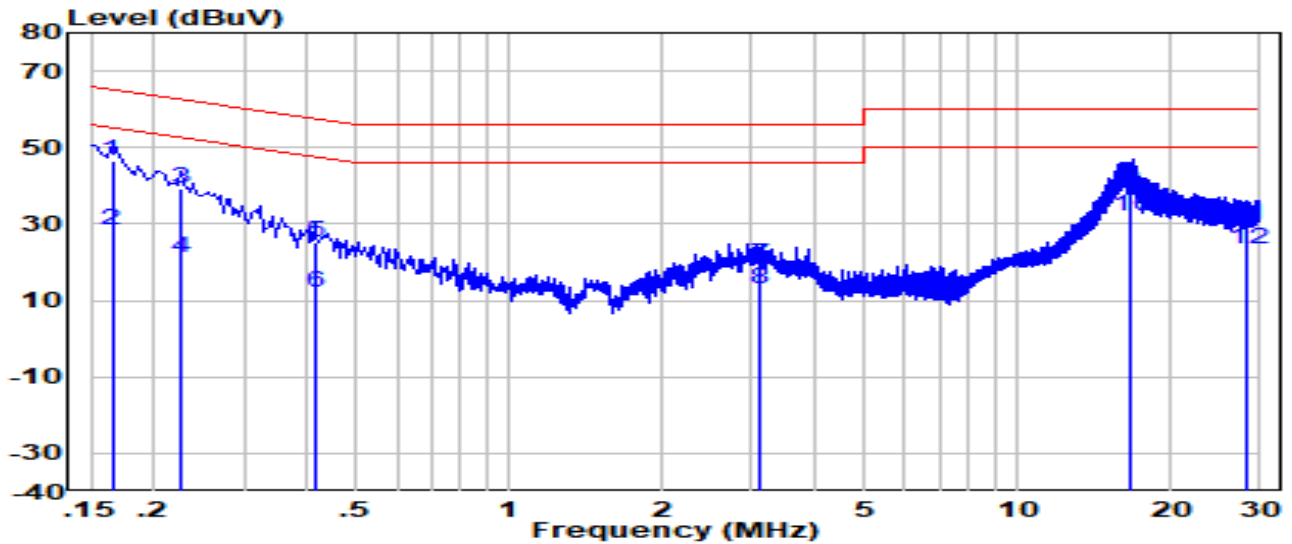
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 6.8.2. Test Setup



### 6.8.3. 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	BLE_TX_1Mbps_CH 19	Test Voltage	120V/60Hz

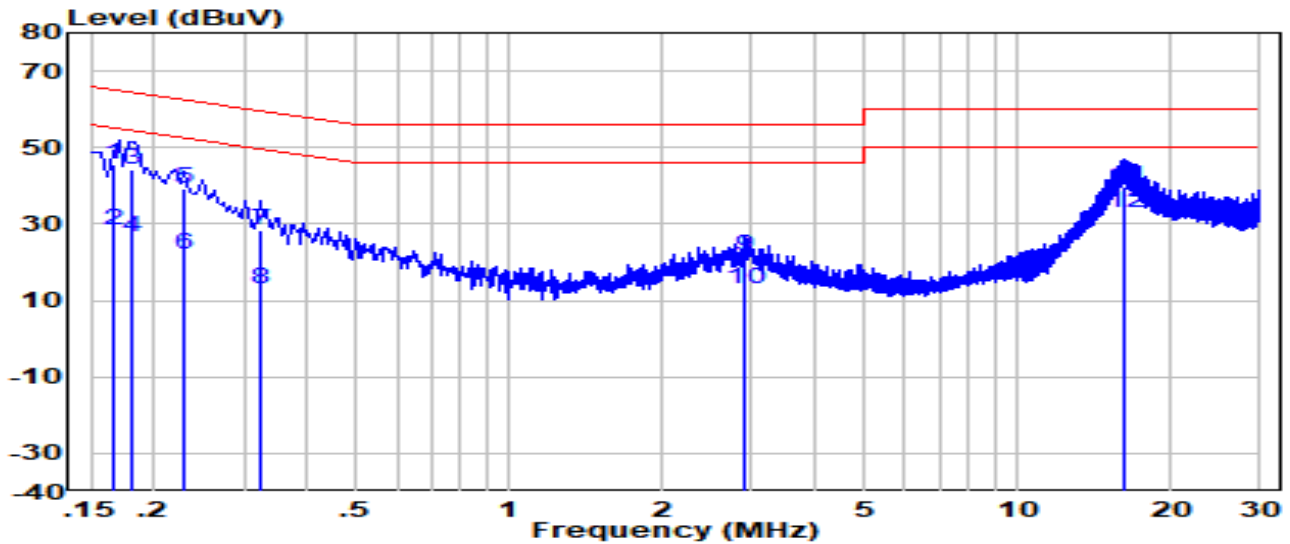


No	Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	* 0.165	36.81	9.61	46.42	-18.79	65.21	QP
2	0.165	18.61	9.61	28.22	-36.99	65.21	Average
3	0.226	29.63	9.61	39.24	-23.35	62.60	QP
4	0.226	11.63	9.61	21.24	-41.35	62.60	Average
5	0.414	15.46	9.63	25.08	-32.49	57.57	QP
6	0.414	2.66	9.63	12.28	-45.29	57.57	Average
7	3.100	9.69	9.71	19.40	-36.60	56.00	QP
8	3.100	3.49	9.71	13.20	-42.80	56.00	Average
9	16.720	28.90	9.95	38.85	-21.15	60.00	QP
10	16.720	22.10	9.95	32.05	-27.95	60.00	Average
11	28.190	19.74	10.09	29.83	-30.17	60.00	QP
12	28.190	13.14	10.09	23.23	-36.77	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	BLE_TX_1Mbps_CH 19	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	* 0.167	36.19	9.62	45.81	-19.30	65.11	QP
2	0.167	18.59	9.62	28.21	-36.90	65.11	Average
3	0.181	34.60	9.62	44.22	-20.22	64.44	QP
4	0.181	17.10	9.62	26.72	-37.72	64.44	Average
5	0.229	29.51	9.62	39.13	-23.35	62.49	QP
6	0.229	12.31	9.62	21.93	-40.55	62.49	Average
7	0.322	18.52	9.63	28.15	-31.50	59.66	QP
8	0.322	3.22	9.63	12.85	-46.80	59.66	Average
9	2.910	11.68	9.71	21.39	-34.61	56.00	QP
10	2.910	3.18	9.71	12.89	-43.11	56.00	Average
11	16.260	29.82	10.00	39.82	-20.19	60.00	QP
12	16.260	23.02	10.00	33.02	-26.99	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 in compliance with Part 15C of the FCC rules.

————— The End —————



## **Appendix A - Test Setup Photograph**

Refer to “ 2105TW0102-UT” file.

## **Appendix B - EUT Photograph**

Refer to " 2105TW0102-UE" file.

## **Appendix C - Internal Photograph**

Refer to “ 2105TW0102-UI” file.