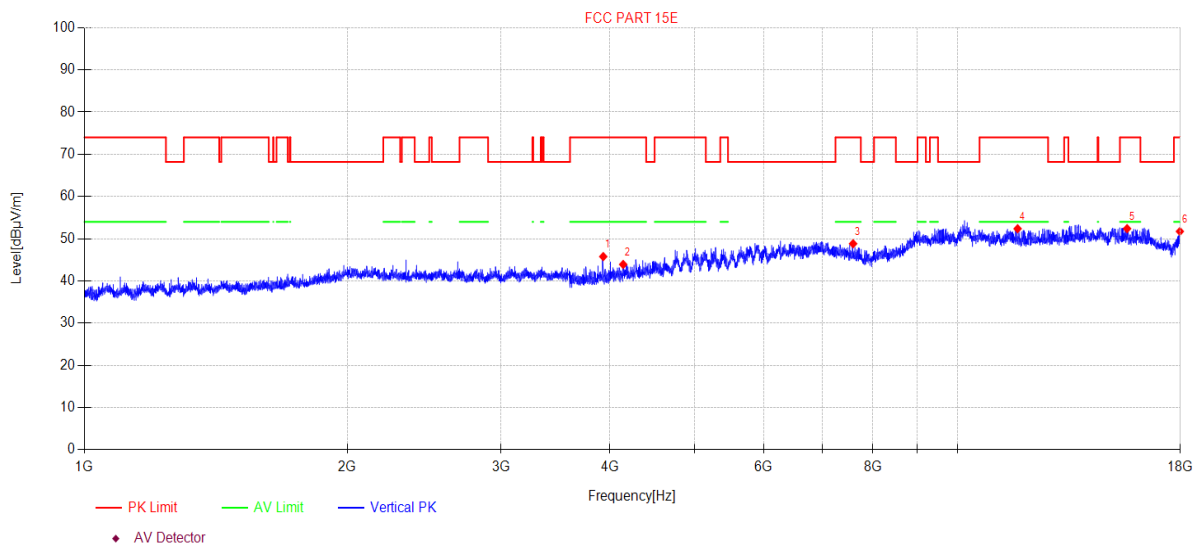


TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\6
Memo: 11N20MIMO 5240

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3929.27	49.59	6.03	30.56	-40.41	45.77	74.00	28.23	PK	Vertical
2	4141.48	46.98	6.35	30.98	-40.40	43.91	74.00	30.09	PK	Vertical
3	7594.26	45.75	8.86	36.40	-42.19	48.82	74.00	25.18	PK	Vertical
4	11718.80	42.90	10.10	38.80	-39.43	52.37	74.00	21.63	PK	Vertical
5	15641.28	38.92	14.26	38.36	-39.14	52.40	74.00	21.60	PK	Vertical
6	17979.20	39.57	12.83	41.68	-42.35	51.73	74.00	22.27	PK	Vertical

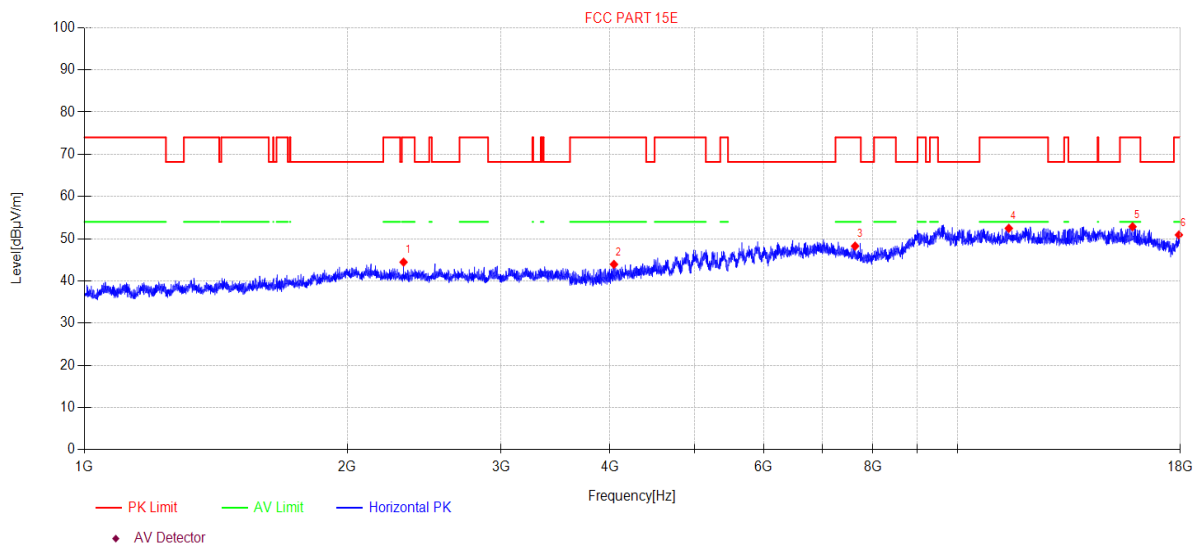
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\7
Memo: 11N20MIMO 5260

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2320.73	49.08	5.95	27.34	-37.92	44.45	74.00	29.55	PK	Horizontal
2	4042.15	47.42	6.16	30.78	-40.43	43.93	74.00	30.07	PK	Horizontal
3	7633.87	45.21	8.86	36.47	-42.28	48.26	74.00	25.74	PK	Horizontal
4	11450.96	42.83	9.88	39.05	-39.30	52.46	74.00	21.54	PK	Horizontal
5	15868.95	38.59	15.41	38.13	-39.28	52.85	74.00	21.15	PK	Horizontal
6	17932.50	38.98	12.78	41.39	-42.25	50.90	74.00	23.10	PK	Horizontal

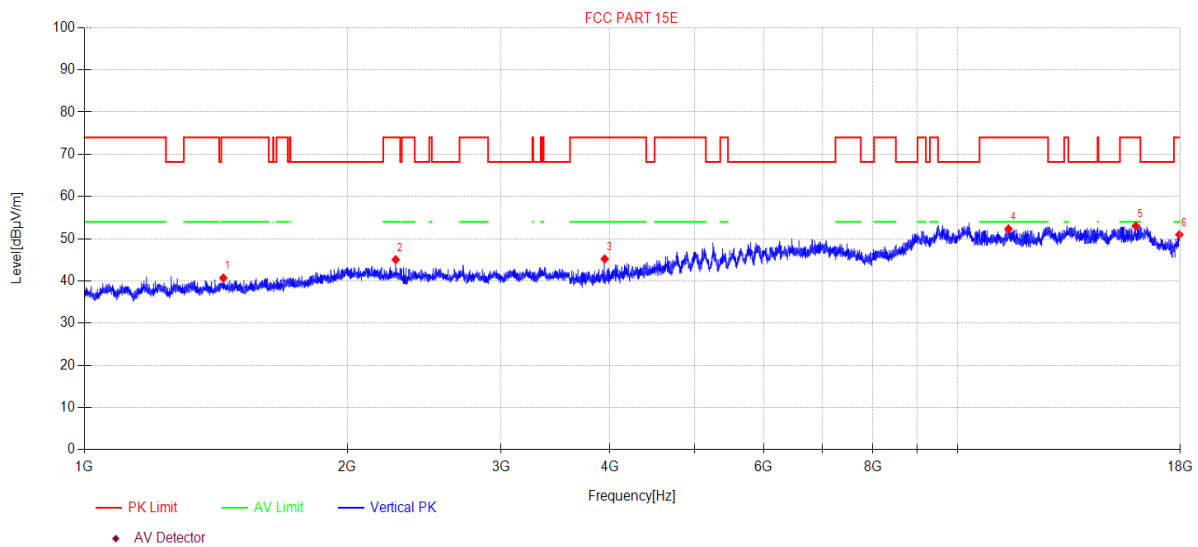
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\8
Memo: 11N20MIMO 5260

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1442.62	47.64	4.39	25.60	-36.94	40.69	74.00	33.31	PK	Vertical
2	2272.94	49.55	5.99	27.30	-37.78	45.06	74.00	28.94	PK	Vertical
3	3944.06	49.01	6.04	30.59	-40.42	45.22	74.00	28.78	PK	Vertical
4	11441.04	42.70	9.87	39.06	-39.30	52.33	74.00	21.67	PK	Vertical
5	16002.51	38.43	16.06	37.90	-39.36	53.03	74.00	20.97	PK	Vertical
6	17953.24	38.94	12.80	41.52	-42.30	50.96	74.00	23.04	PK	Vertical

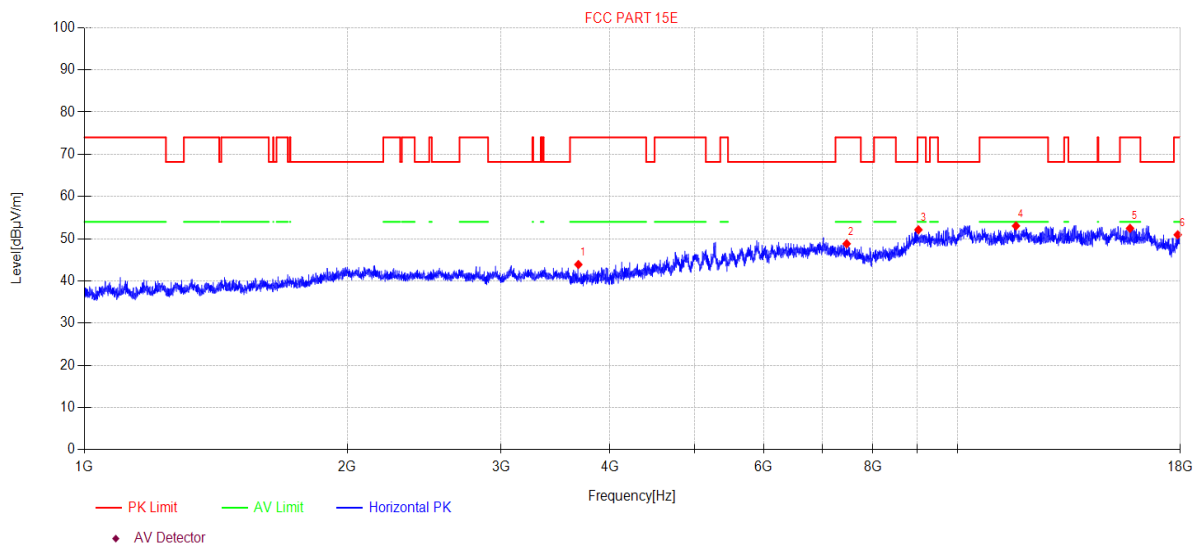
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\9
Memo: 11N20MIMO 5280

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3679.77	48.37	5.85	29.92	-40.25	43.89	74.00	30.11	PK	Horizontal
2	7465.87	45.31	8.89	36.47	-41.86	48.81	74.00	25.19	PK	Horizontal
3	9021.78	43.66	9.05	38.20	-38.79	52.12	74.00	21.88	PK	Horizontal
4	11668.11	43.55	10.05	38.83	-39.40	53.03	74.00	20.97	PK	Horizontal
5	15763.81	38.56	14.88	38.24	-39.22	52.46	74.00	21.54	PK	Horizontal
6	17875.58	39.30	12.73	41.03	-42.12	50.94	74.00	23.06	PK	Horizontal

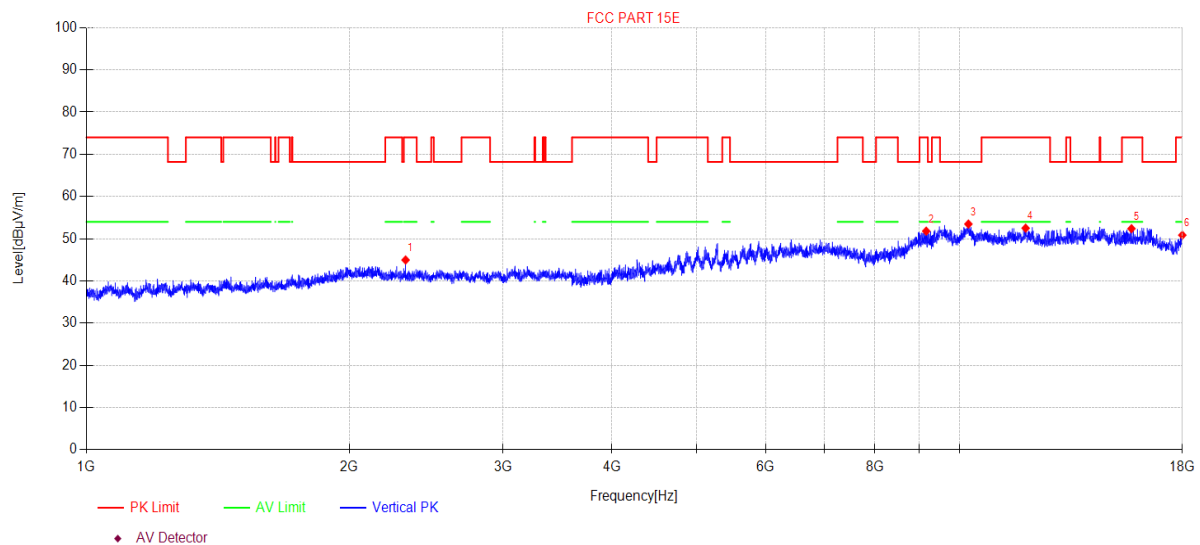
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\10
Memo: 11N20MIMO 5280

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2320.73	49.59	5.95	27.34	-37.92	44.96	74.00	29.04	PK	Vertical
2	9161.04	43.18	9.10	38.30	-38.78	51.80	74.00	22.20	PK	Vertical
3	10239.24	44.11	9.44	38.74	-38.81	53.48	68.20	14.72	PK	Vertical
4	11906.56	42.97	10.25	38.81	-39.52	52.51	74.00	21.49	PK	Vertical
5	15741.05	38.57	14.76	38.26	-39.20	52.39	74.00	21.61	PK	Vertical
6	18000.00	38.60	12.85	41.80	-42.40	50.85	74.00	23.15	PK	Vertical

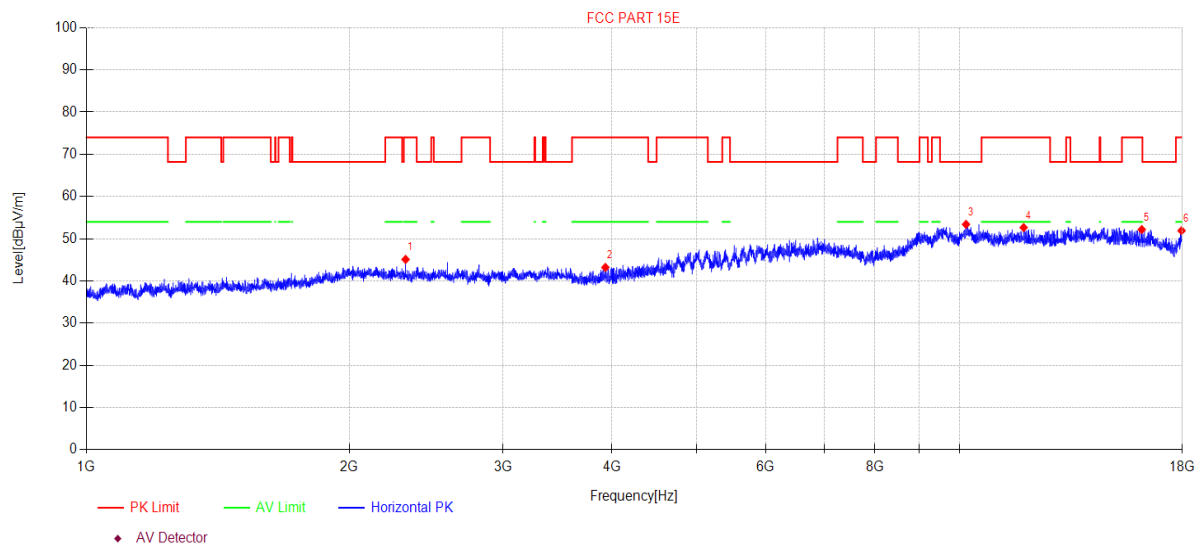
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\11
Memo: 11N20MIMO 5320

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2320.73	49.73	5.95	27.34	-37.92	45.10	74.00	28.90	PK	Horizontal
2	3930.41	47.02	6.03	30.56	-40.41	43.20	74.00	30.80	PK	Horizontal
3	10174.35	44.07	9.44	38.67	-38.78	53.40	68.20	14.80	PK	Horizontal
4	11844.79	43.13	10.20	38.80	-39.49	52.64	74.00	21.36	PK	Horizontal
5	16174.54	38.61	15.34	37.73	-39.50	52.18	74.00	21.82	PK	Horizontal
6	17963.62	39.83	12.81	41.58	-42.32	51.90	74.00	22.10	PK	Horizontal

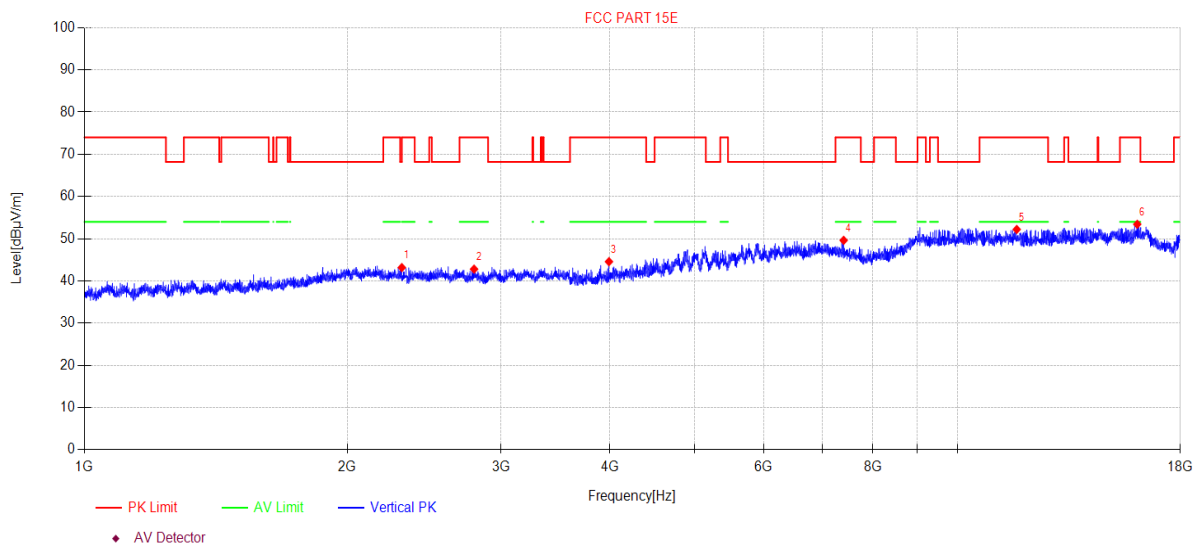
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\12
Memo: 11N20MIMO 5320

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2310.02	47.78	5.96	27.32	-37.89	43.17	74.00	30.83	PK	Vertical
2	2794.67	48.04	5.53	28.49	-39.26	42.80	74.00	31.20	PK	Vertical
3	3988.77	48.26	6.07	30.68	-40.44	44.57	74.00	29.43	PK	Vertical
4	7407.84	45.95	8.89	36.50	-41.72	49.62	74.00	24.38	PK	Vertical
5	11691.74	42.74	10.07	38.81	-39.42	52.20	74.00	21.80	PK	Vertical
6	16067.39	39.22	15.79	37.83	-39.41	53.43	74.00	20.57	PK	Vertical

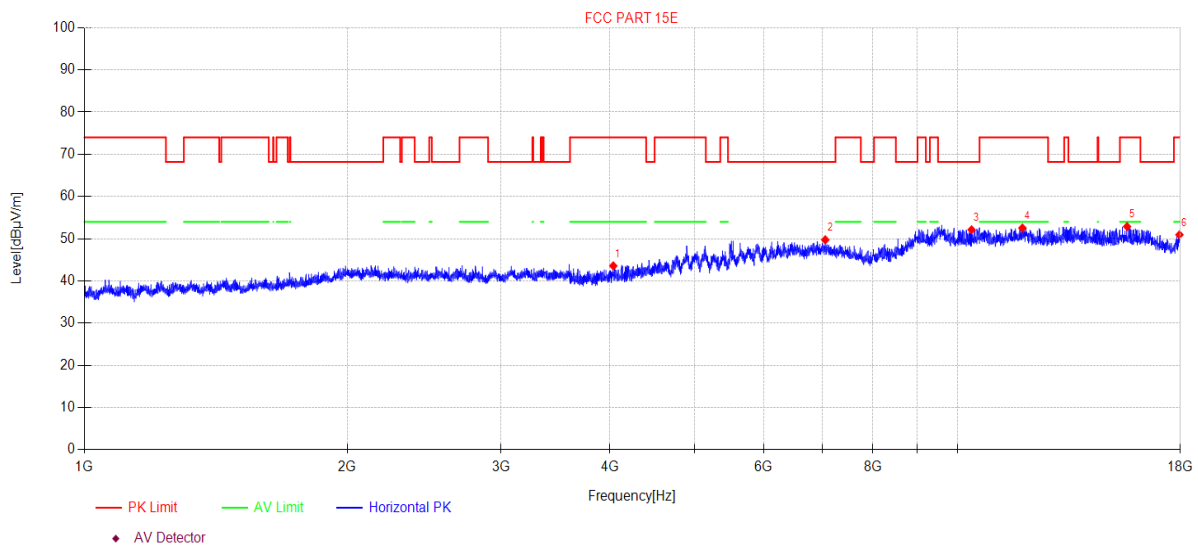
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\13
Memo: 11N20MIMO 5500

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4035.15	47.09	6.15	30.77	-40.44	43.57	74.00	30.43	PK	Horizontal
2	7056.75	45.42	8.95	36.21	-40.84	49.74	68.20	18.46	PK	Horizontal
3	10379.27	42.71	9.46	38.80	-38.86	52.11	68.20	16.09	PK	Horizontal
4	11868.77	43.02	10.22	38.80	-39.50	52.54	74.00	21.46	PK	Horizontal
5	15641.28	39.40	14.26	38.36	-39.14	52.88	74.00	21.12	PK	Horizontal
6	17958.43	38.89	12.81	41.55	-42.31	50.94	74.00	23.06	PK	Horizontal

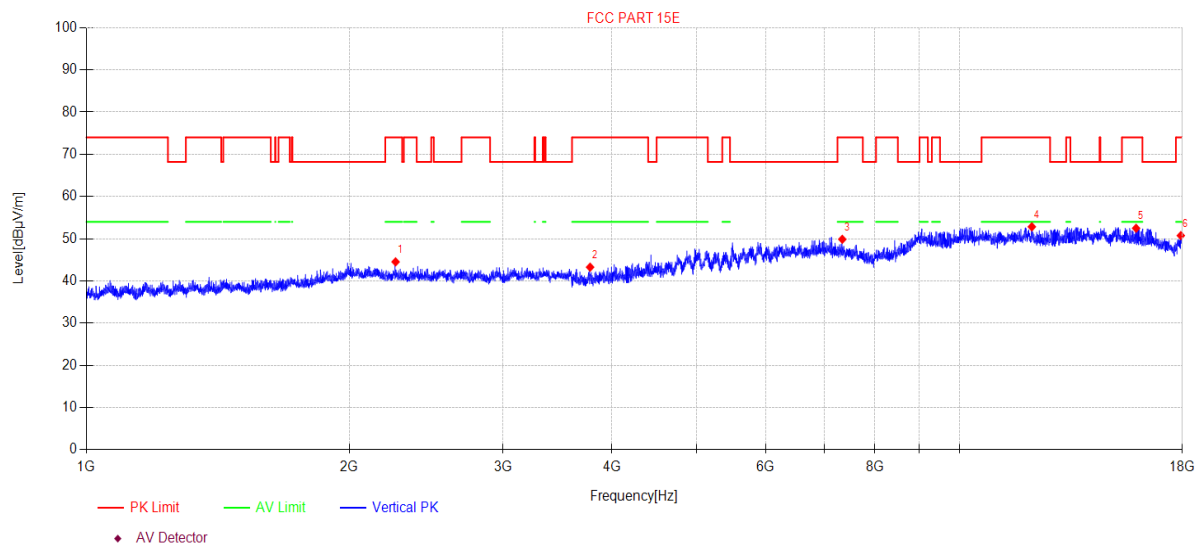
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\14
Memo: 11N20MIMO 5500

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2260.49	48.97	6.00	27.30	-37.75	44.52	74.00	29.48	PK	Vertical
2	3775.64	47.45	5.92	30.20	-40.31	43.26	74.00	30.74	PK	Vertical
3	7341.76	46.01	8.91	36.50	-41.55	49.87	74.00	24.13	PK	Vertical
4	12104.33	43.00	10.33	39.10	-39.60	52.83	74.00	21.17	PK	Vertical
5	15933.28	38.05	15.73	38.03	-39.32	52.49	74.00	21.51	PK	Vertical
6	17927.32	38.84	12.78	41.36	-42.24	50.74	74.00	23.26	PK	Vertical

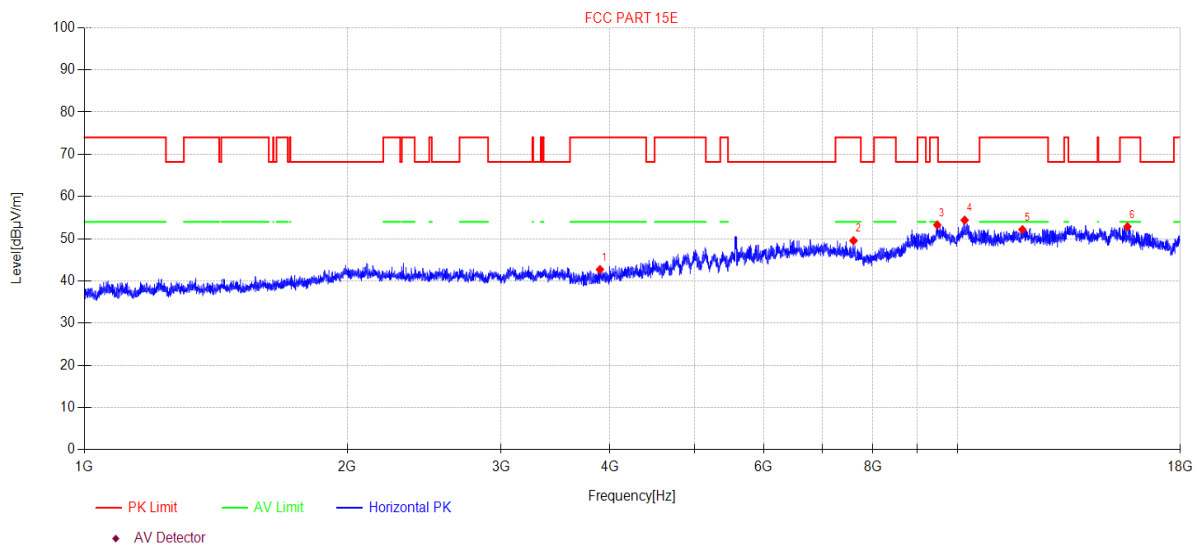
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\15
Memo: 11N20MIMO 5580

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3895.35	46.60	6.00	30.49	-40.39	42.70	74.00	31.30	PK	Horizontal
2	7603.05	46.47	8.86	36.41	-42.21	49.53	74.00	24.47	PK	Horizontal
3	9481.58	44.41	9.22	38.40	-38.76	53.27	74.00	20.73	PK	Horizontal
4	10192.00	45.06	9.44	38.69	-38.79	54.40	68.20	13.80	PK	Horizontal
5	11868.77	42.64	10.22	38.80	-39.50	52.16	74.00	21.84	PK	Horizontal
6	15654.85	39.33	14.33	38.35	-39.15	52.86	74.00	21.14	PK	Horizontal

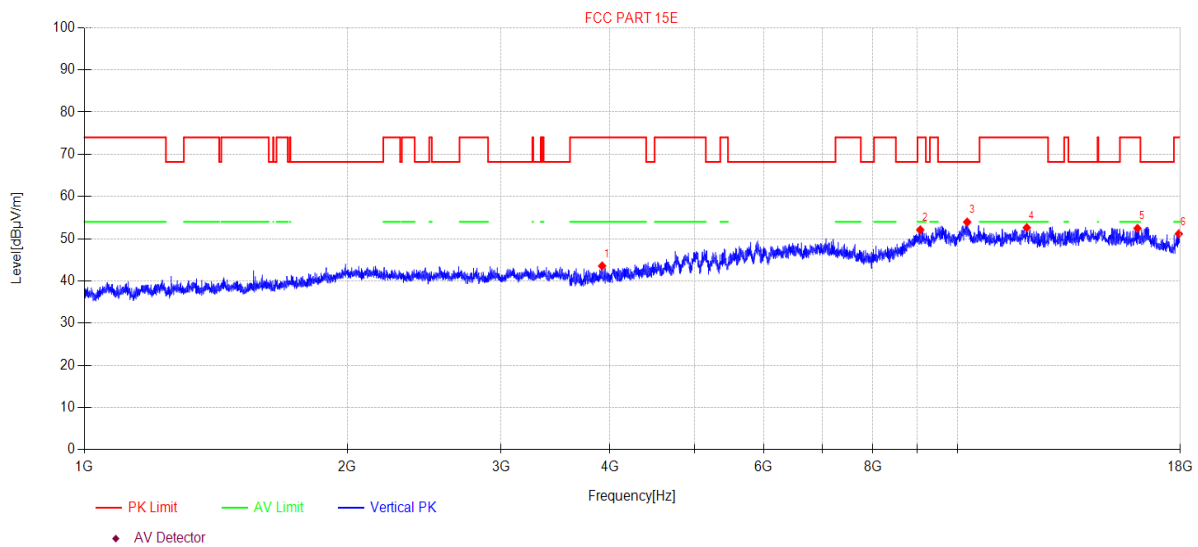
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\16
Memo: 11N20MIMO 5580

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3917.93	47.38	6.02	30.54	-40.40	43.54	74.00	30.46	PK	Vertical
2	9066.22	43.62	9.07	38.20	-38.79	52.10	74.00	21.90	PK	Vertical
3	10259.98	44.55	9.45	38.76	-38.82	53.94	68.20	14.26	PK	Vertical
4	12006.78	42.95	10.32	38.91	-39.56	52.62	74.00	21.38	PK	Vertical
5	16076.68	38.31	15.75	37.82	-39.42	52.46	74.00	21.54	PK	Vertical
6	17927.32	39.26	12.78	41.36	-42.24	51.16	74.00	22.84	PK	Vertical

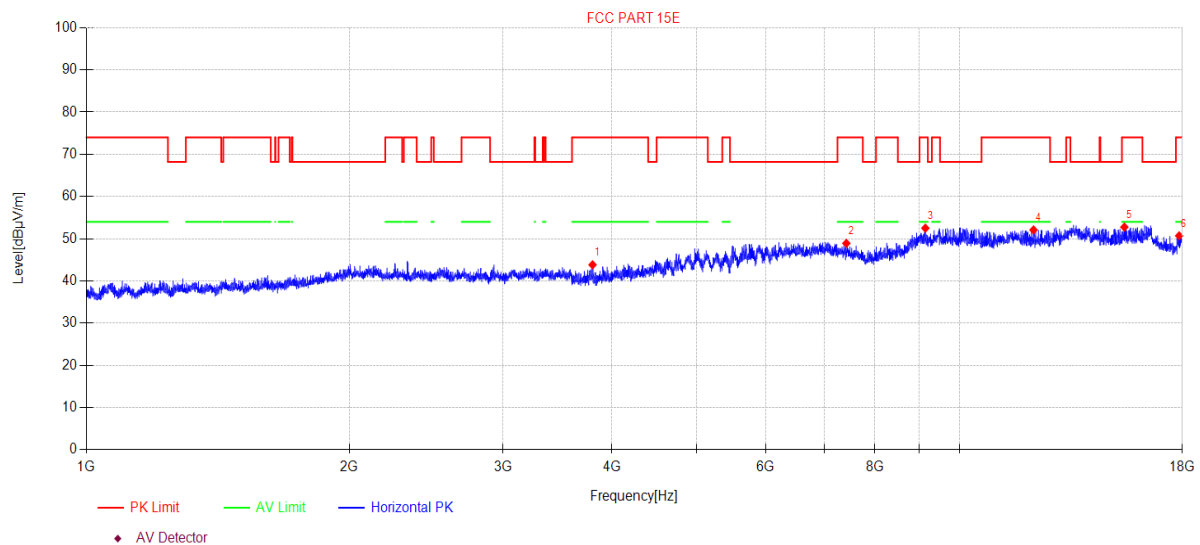
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\17
Memo: 11N20MIMO 5700

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3799.73	47.92	5.93	30.30	-40.33	43.82	74.00	30.18	PK	Horizontal
2	7420.69	45.27	8.89	36.50	-41.75	48.91	74.00	25.09	PK	Horizontal
3	9139.88	43.92	9.09	38.28	-38.78	52.51	74.00	21.49	PK	Horizontal
4	12156.92	42.27	10.33	39.10	-39.62	52.08	74.00	21.92	PK	Horizontal
5	15448.11	39.85	13.29	38.65	-39.03	52.76	74.00	21.24	PK	Horizontal
6	17849.77	39.20	12.70	40.85	-42.06	50.69	74.00	23.31	PK	Horizontal

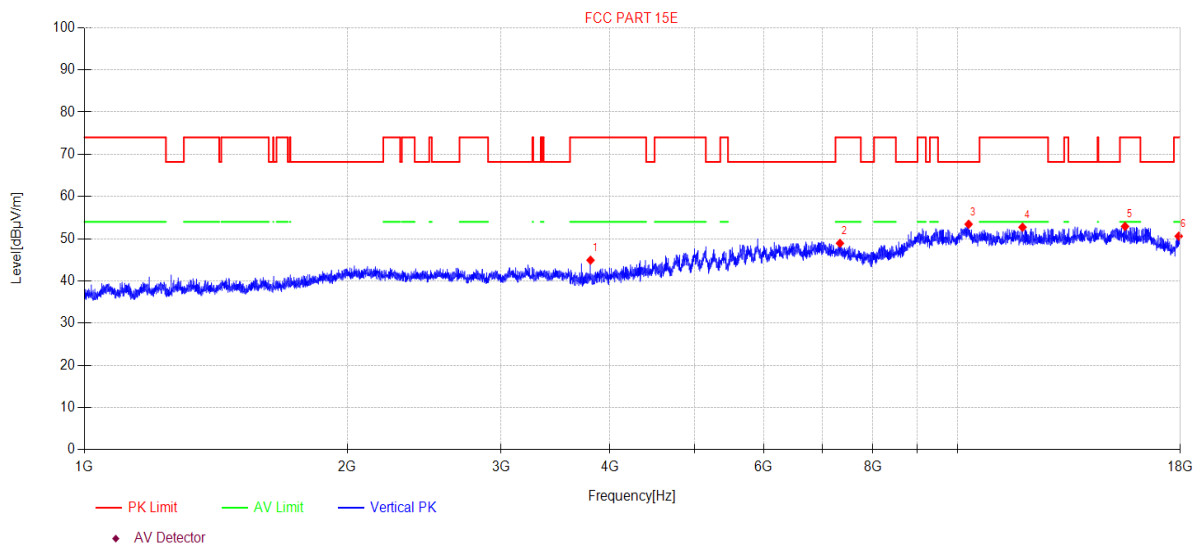
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\18
Memo: 11N20MIMO 5700

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3799.73	49.02	5.93	30.30	-40.33	44.92	74.00	29.08	PK	Vertical
2	7335.40	45.05	8.91	36.50	-41.54	48.92	74.00	25.08	PK	Vertical
3	10298.60	44.01	9.45	38.80	-38.83	53.43	68.20	14.77	PK	Vertical
4	11872.20	43.20	10.22	38.80	-39.50	52.72	74.00	21.28	PK	Vertical
5	15555.63	39.69	13.83	38.49	-39.09	52.92	74.00	21.08	PK	Vertical
6	17922.14	38.73	12.77	41.33	-42.23	50.60	74.00	23.40	PK	Vertical

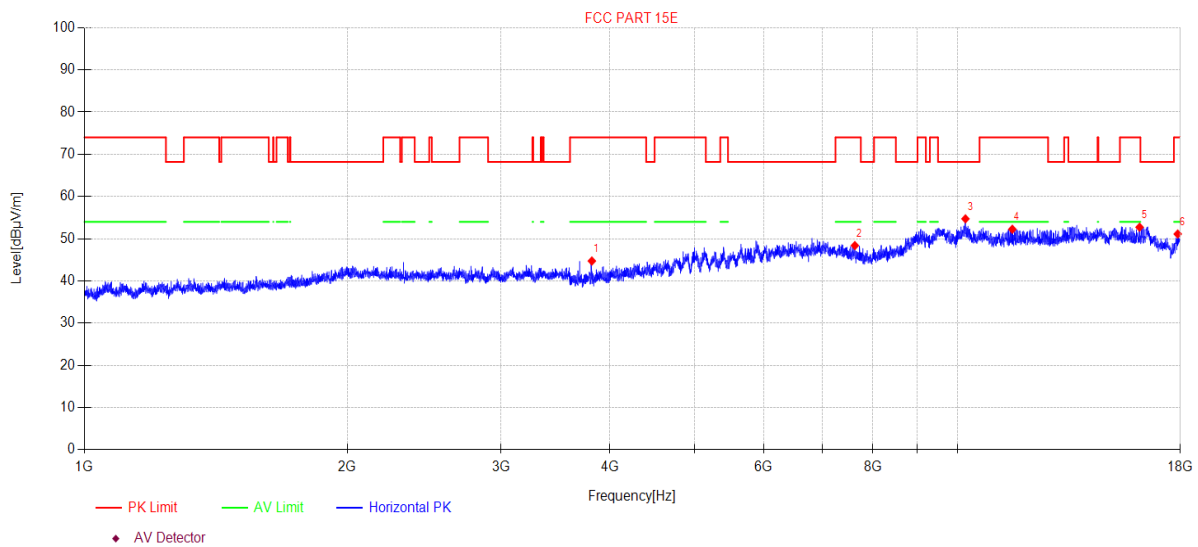
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\19
Memo: 11N20MIMO 5720

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3812.93	48.80	5.94	30.33	-40.34	44.73	74.00	29.27	PK	Horizontal
2	7629.46	45.33	8.86	36.46	-42.27	48.38	74.00	25.62	PK	Horizontal
3	10212.64	45.36	9.44	38.71	-38.80	54.71	68.20	13.49	PK	Horizontal
4	11557.36	42.69	9.97	38.94	-39.35	52.25	74.00	21.75	PK	Horizontal
5	16165.20	39.11	15.38	37.73	-39.49	52.73	74.00	21.27	PK	Horizontal
6	17875.58	39.48	12.73	41.03	-42.12	51.12	74.00	22.88	PK	Horizontal

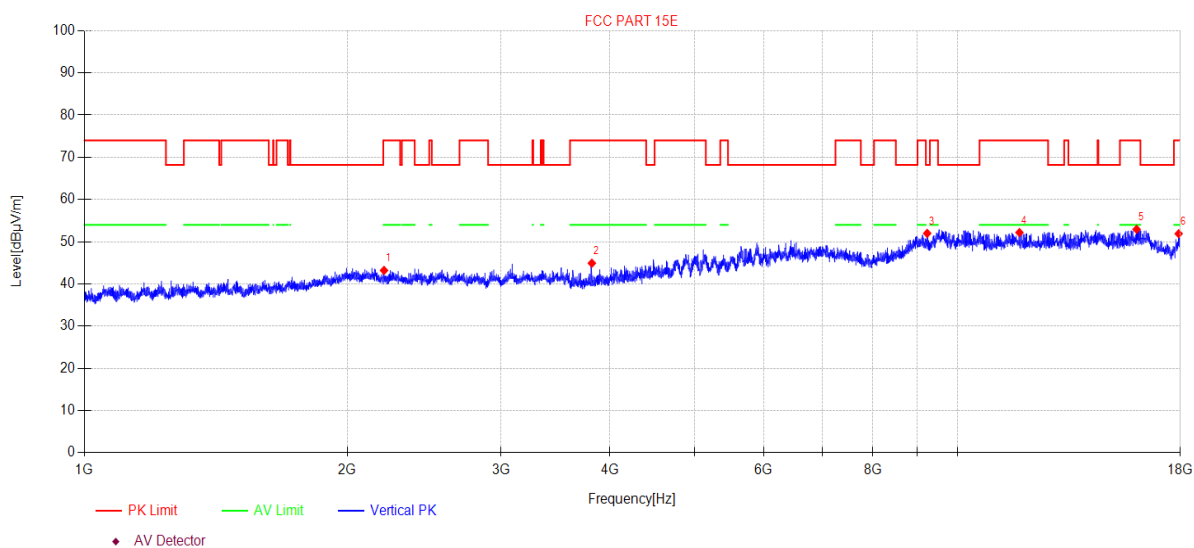
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\20
Memo: 11N20MIMO 5720

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2204.36	47.54	6.05	27.21	-37.59	43.21	74.00	30.79	PK	Vertical
2	3812.93	48.98	5.94	30.33	-40.34	44.91	74.00	29.09	PK	Vertical
3	9232.80	43.25	9.13	38.37	-38.77	51.98	68.20	16.22	PK	Vertical
4	11776.52	42.69	10.14	38.80	-39.45	52.18	74.00	21.82	PK	Vertical
5	16039.55	38.56	15.90	37.86	-39.39	52.93	74.00	21.07	PK	Vertical
6	17922.14	40.03	12.77	41.33	-42.23	51.90	74.00	22.10	PK	Vertical

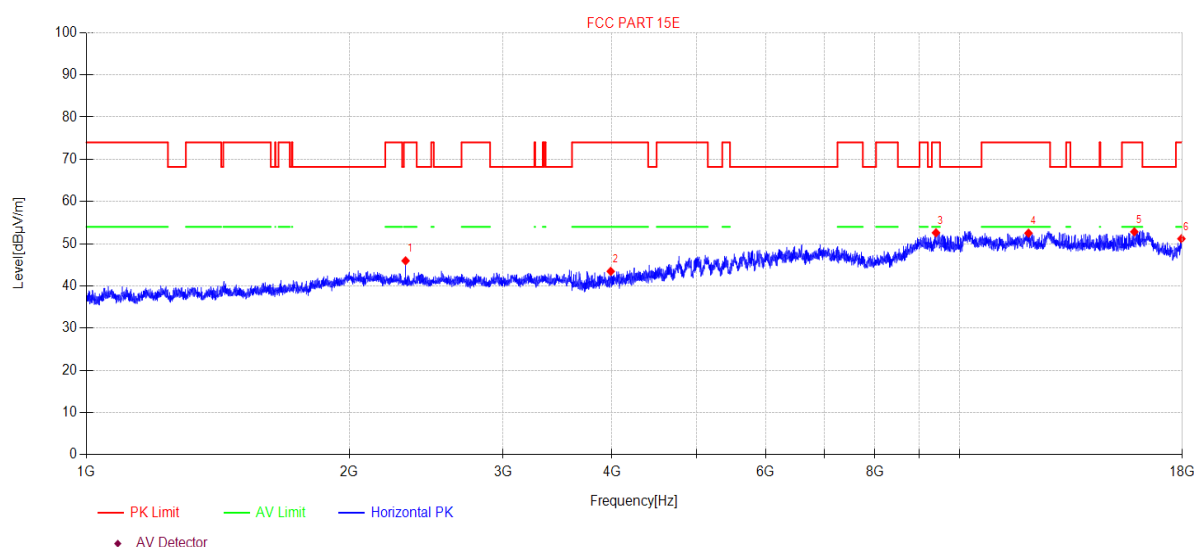
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5.8GWIFI\1
Memo: 11N20MIMO 5745

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2320.73	50.59	5.95	27.34	-37.92	45.96	74.00	28.04	PK	Horizontal
2	3986.46	47.15	6.07	30.67	-40.44	43.45	74.00	30.55	PK	Horizontal
3	9399.73	43.77	9.19	38.40	-38.76	52.60	74.00	21.40	PK	Horizontal
4	11996.37	42.84	10.32	38.90	-39.56	52.50	74.00	21.50	PK	Horizontal
5	15859.78	38.61	15.36	38.14	-39.28	52.83	74.00	21.17	PK	Horizontal
6	17958.43	39.13	12.81	41.55	-42.31	51.18	74.00	22.82	PK	Horizontal

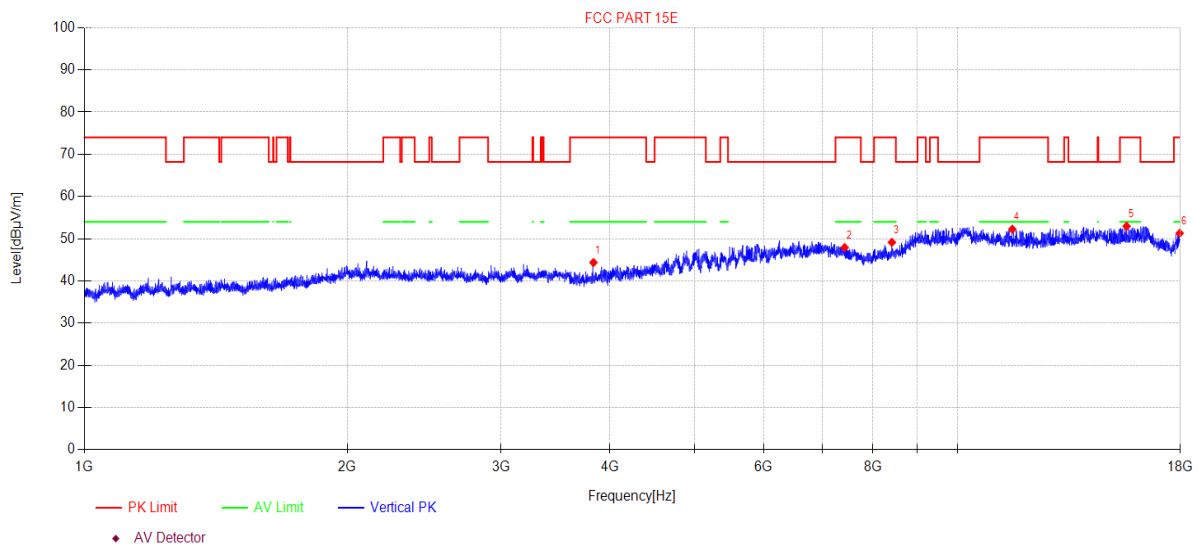
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5.8GWIFI\2
Memo: 11N20MIMO 5745

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3829.49	48.39	5.96	30.36	-40.35	44.36	74.00	29.64	PK	Vertical
2	7427.13	44.30	8.89	36.50	-41.77	47.92	74.00	26.08	PK	Vertical
3	8412.36	44.31	8.90	37.32	-41.38	49.15	74.00	24.85	PK	Vertical
4	11557.36	42.69	9.97	38.94	-39.35	52.25	74.00	21.75	PK	Vertical
5	15623.21	39.54	14.17	38.38	-39.13	52.96	74.00	21.04	PK	Vertical
6	17968.81	39.20	12.82	41.61	-42.33	51.30	74.00	22.70	PK	Vertical

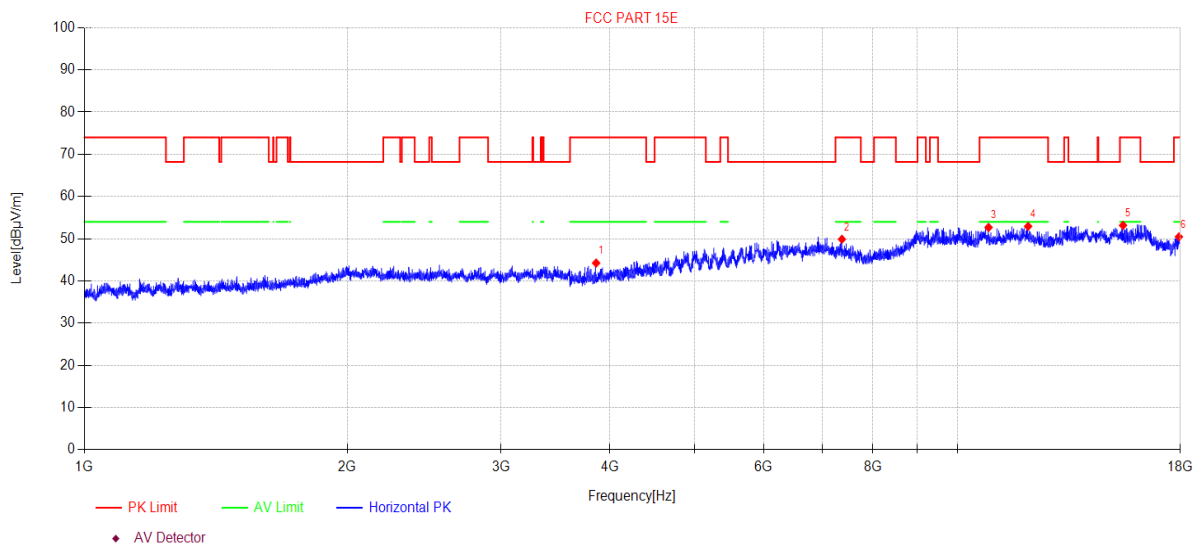
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5.8GWIFI\3
Memo: 11N20MIMO 5785

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3856.15	48.22	5.97	30.41	-40.36	44.24	74.00	29.76	PK	Horizontal
2	7373.66	46.10	8.90	36.50	-41.63	49.87	74.00	24.13	PK	Horizontal
3	10854.80	43.11	9.51	39.10	-39.04	52.68	74.00	21.32	PK	Horizontal
4	12048.49	43.19	10.32	39.00	-39.58	52.93	74.00	21.07	PK	Horizontal
5	15474.92	40.16	13.42	38.63	-39.04	53.17	74.00	20.83	PK	Horizontal
6	17932.50	38.53	12.78	41.39	-42.25	50.45	74.00	23.55	PK	Horizontal

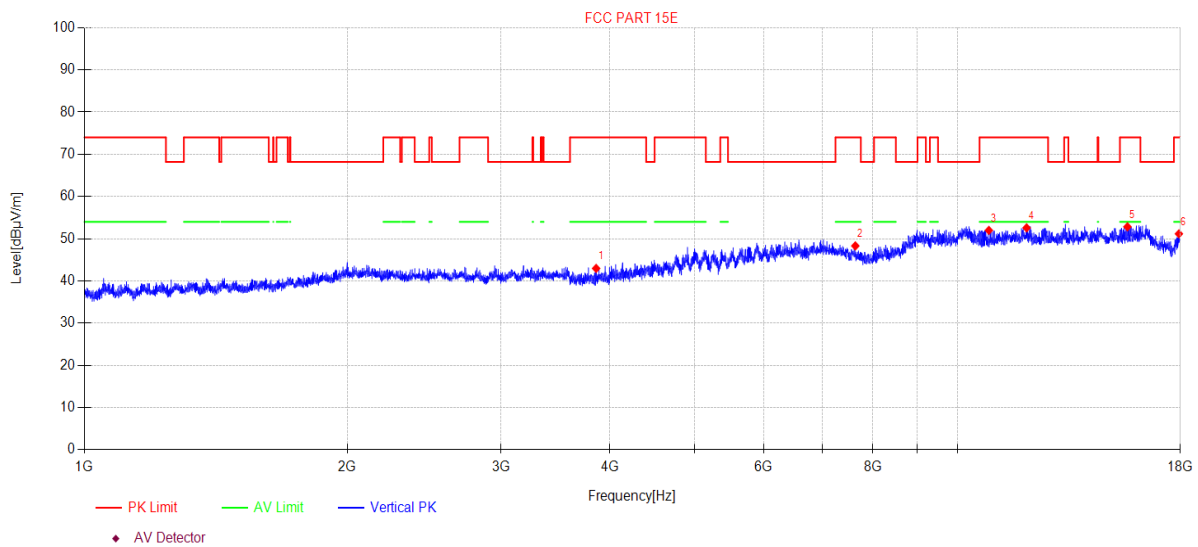
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5.8GWIFI\4
Memo: 11N20MIMO 5785

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3856.15	46.95	5.97	30.41	-40.36	42.97	74.00	31.03	PK	Vertical
2	7638.29	45.26	8.86	36.48	-42.30	48.30	74.00	25.70	PK	Vertical
3	10864.21	42.41	9.51	39.10	-39.04	51.98	74.00	22.02	PK	Vertical
4	11999.84	42.92	10.32	38.90	-39.56	52.58	74.00	21.42	PK	Vertical
5	15654.85	39.30	14.33	38.35	-39.15	52.83	74.00	21.17	PK	Vertical
6	17932.50	39.25	12.78	41.39	-42.25	51.17	74.00	22.83	PK	Vertical

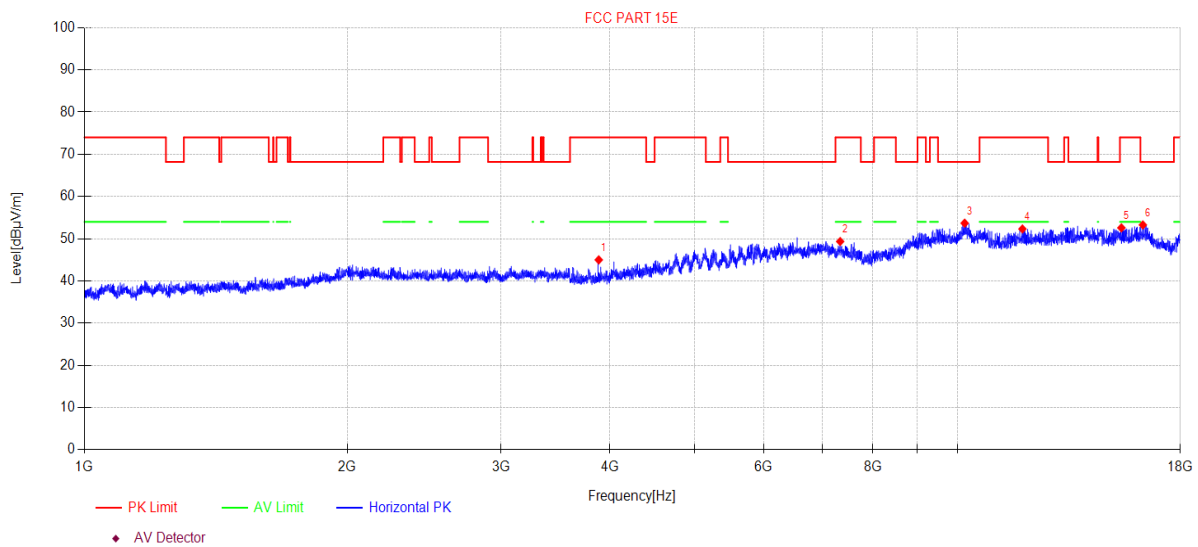
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5.8GWIFI\5
Memo: 11N20MIMO 5825

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3882.99	48.91	5.99	30.47	-40.38	44.99	74.00	29.01	PK	Horizontal
2	7339.64	45.48	8.91	36.50	-41.55	49.34	74.00	24.66	PK	Horizontal
3	10192.00	44.35	9.44	38.69	-38.79	53.69	68.20	14.51	PK	Horizontal
4	11868.77	42.79	10.22	38.80	-39.50	52.31	74.00	21.69	PK	Horizontal
5	15407.98	39.80	13.09	38.69	-39.00	52.58	74.00	21.42	PK	Horizontal
6	16305.96	40.49	14.78	37.61	-39.61	53.27	68.20	14.93	PK	Horizontal

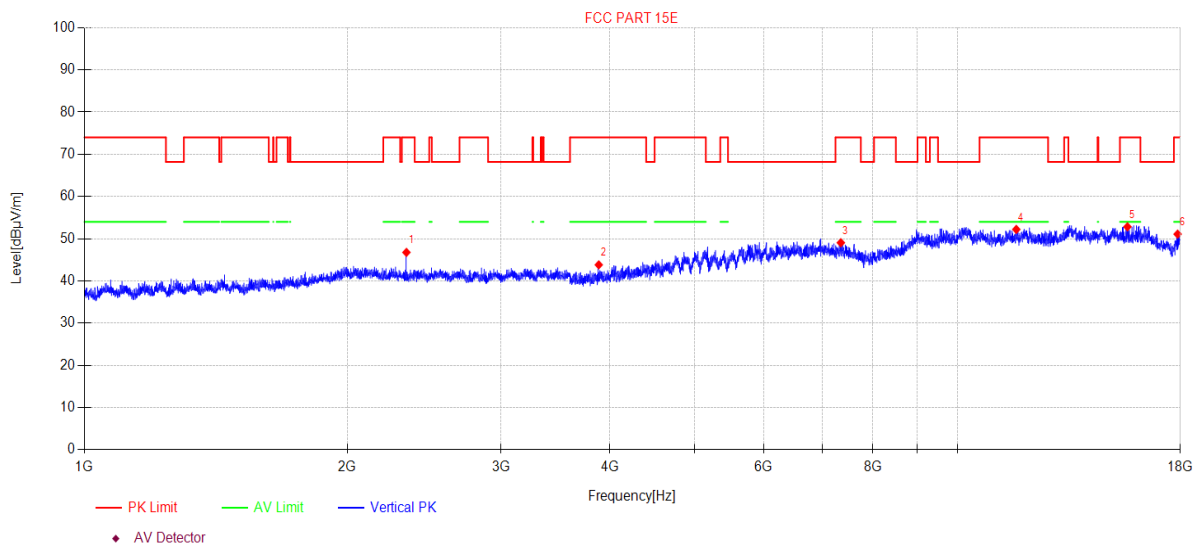
Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5.8GWIFI\6
Memo: 11N20MIMO 5825

Test Graph



Suspected Data List

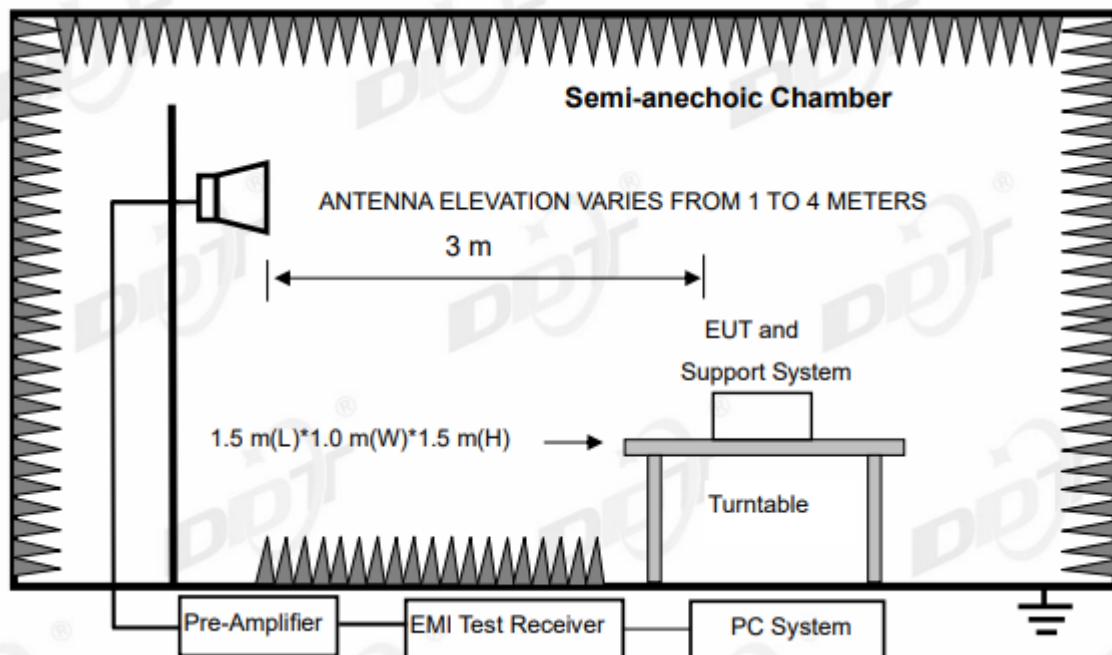
N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2338.23	51.43	5.93	27.38	-37.97	46.77	74.00	27.23	PK	Vertical
2	3882.99	47.73	5.99	30.47	-40.38	43.81	74.00	30.19	PK	Vertical
3	7352.38	45.23	8.90	36.50	-41.58	49.05	74.00	24.95	PK	Vertical
4	11678.23	42.74	10.06	38.82	-39.41	52.21	74.00	21.79	PK	Vertical
5	15654.85	39.30	14.33	38.35	-39.15	52.83	74.00	21.17	PK	Vertical
6	17870.41	39.49	12.72	40.99	-42.11	51.09	74.00	22.91	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Block diagram of test setup



13.2. Limit

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725-5.850 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

13.3. Test Procedure

Same with Emissions in Restricted Frequency Bands except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

13.4. Test result

Pass. (See below detailed test result)

Note: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted

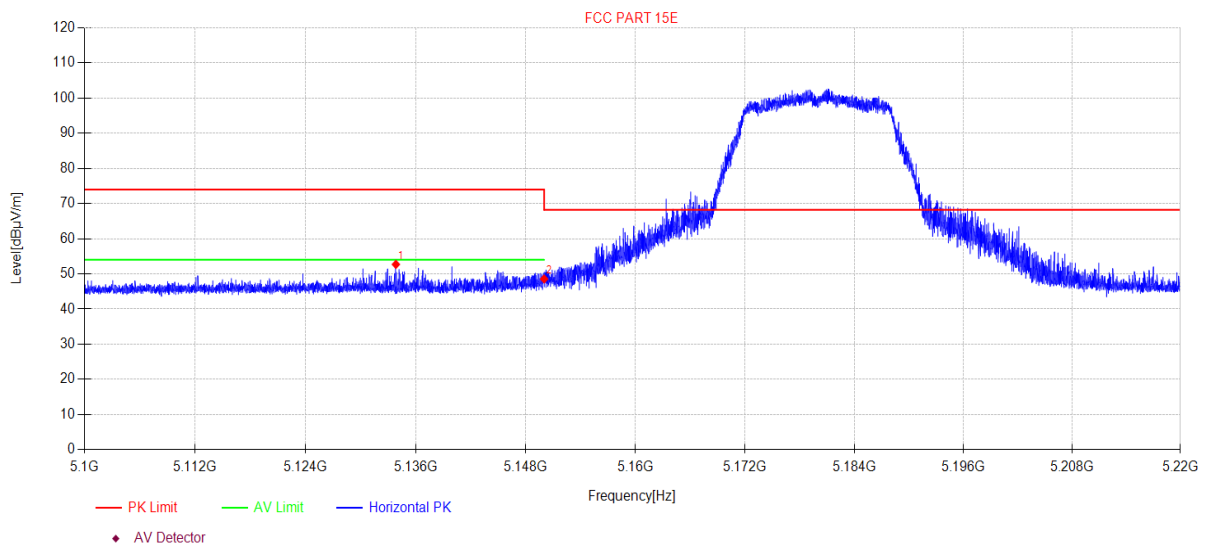
bands are subject to a peak emission limit of -27 dBm/MHz. However, out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit

Note2: 11a, 11n20, 11n40, 11ac20, 11ac40 and 11ac80 mode all have been tested, only 11a mode of ANT 1, 11n20, n40, 11ac20, 11ac40 and 11ac80 mode of MIMO mode is worse case and reported.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\21
Memo: 11A 5180 ANT1

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5133.83	54.29	5.58	32.90	-40.06	52.71	74.00	21.29	PK	Horizontal
2	5150.00	50.13	5.59	32.90	-40.06	48.56	68.20	19.64	PK	Horizontal

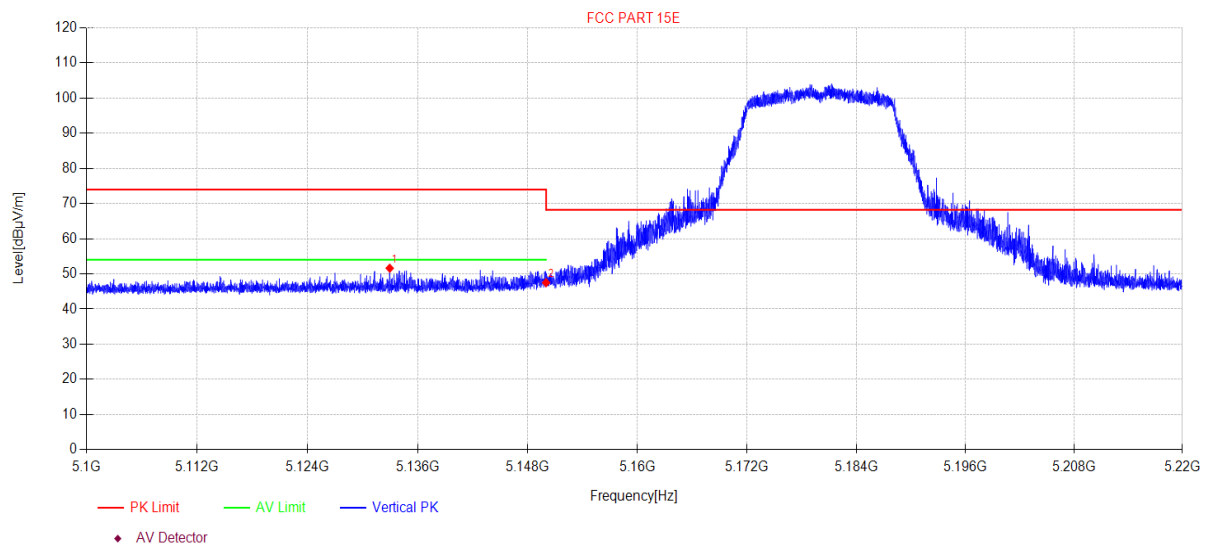
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\22
Memo: 11A 5180 ANT1

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5132.94	53.20	5.58	32.90	-40.06	51.62	74.00	22.38	PK	Vertical
2	5150.00	49.08	5.59	32.90	-40.06	47.51	68.20	20.69	PK	Vertical

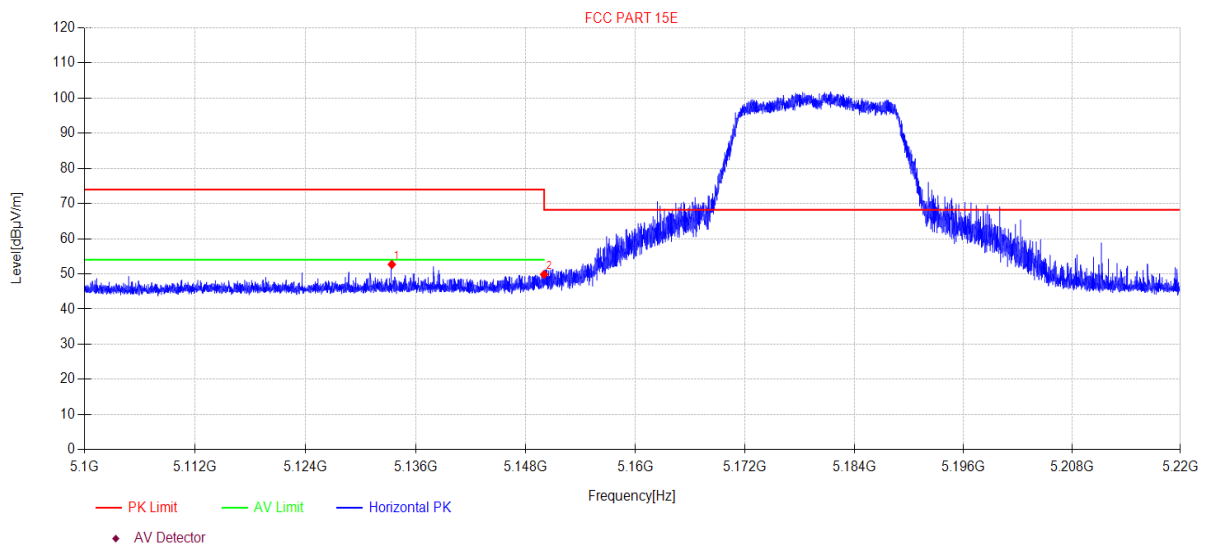
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\25
Memo: 11N20MIMO 5180

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5133.38	54.27	5.58	32.90	-40.06	52.69	74.00	21.31	PK	Horizontal
2	5150.00	51.44	5.59	32.90	-40.06	49.87	68.20	18.33	PK	Horizontal

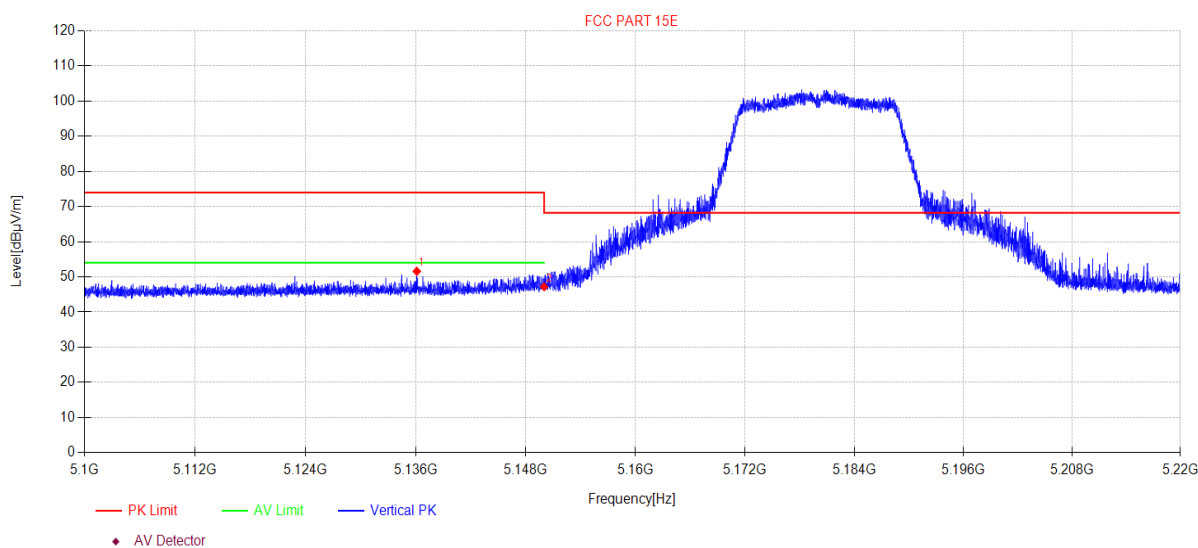
Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-09-09 **Tested By:** Bairong
EUT: Wireless Multi-Channel Soundbar **Model Number:** CITATION MULTIBEAM 700
Test Mode: TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:20.9°C;Humi:65.5% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2023 report data\Q23082223-2E CITATION MULTIBEAM 700\FCC ABOVE 1G 5GWIFI\26
Memo: 11N20MIMO 5180

Test Graph



Suspected Data List

N O.	Freq. [MHz]	Reading [dBμV/m]	Cable loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5136.11	53.17	5.58	32.90	-40.06	51.59	74.00	22.41	PK	Vertical
2	5150.00	48.77	5.59	32.90	-40.06	47.20	68.20	21.00	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.