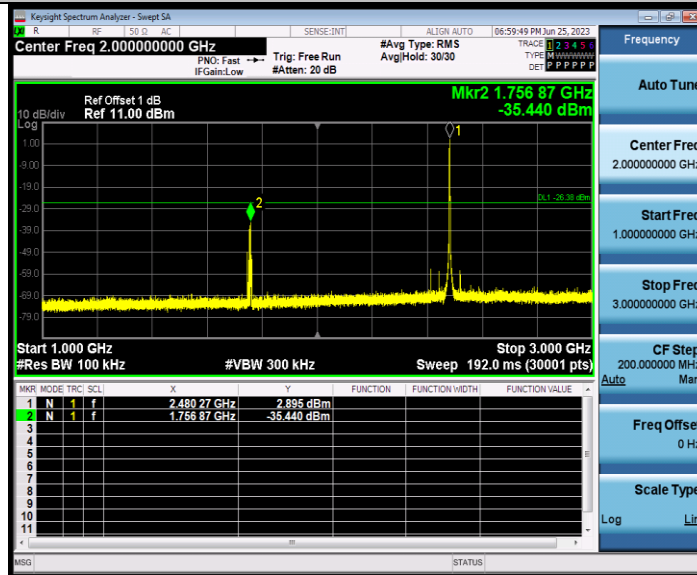
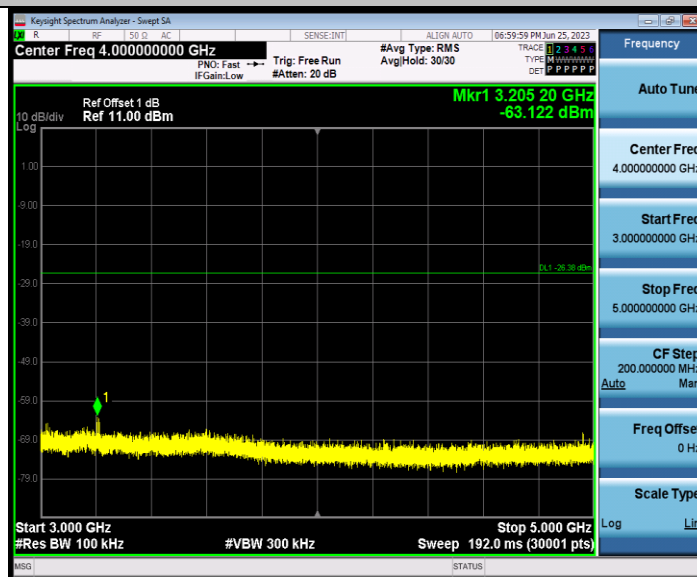


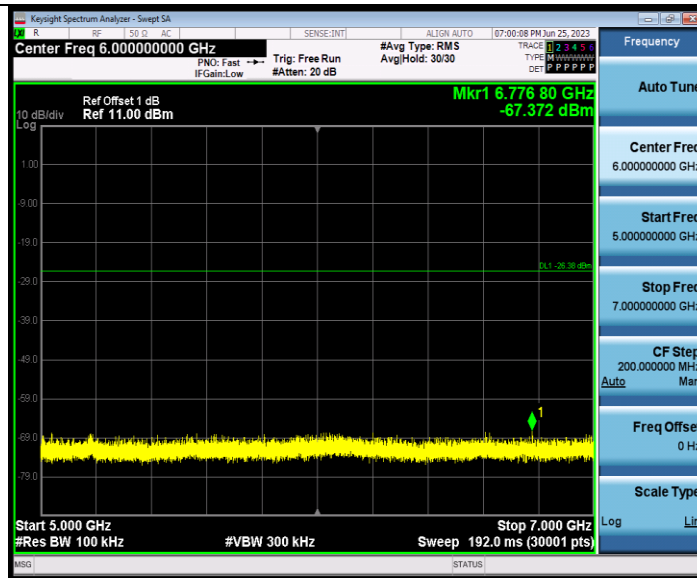
ZIGB\_Ant1\_2480\_1000~3000



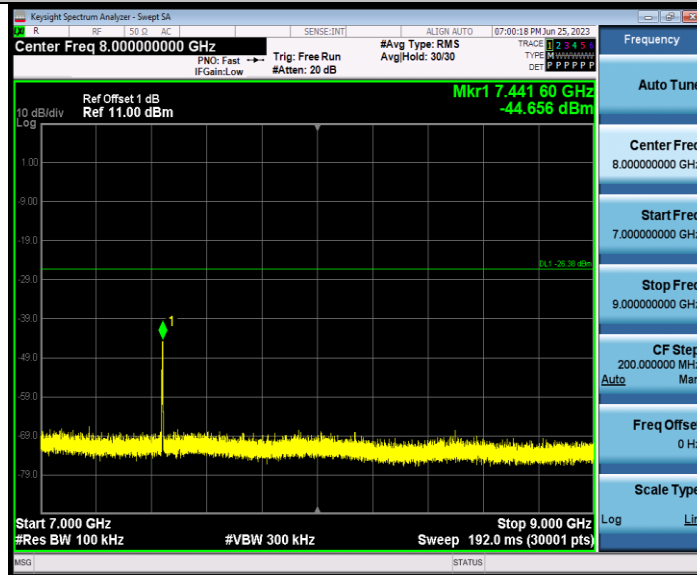
ZIGB\_Ant1\_2480\_3000~5000



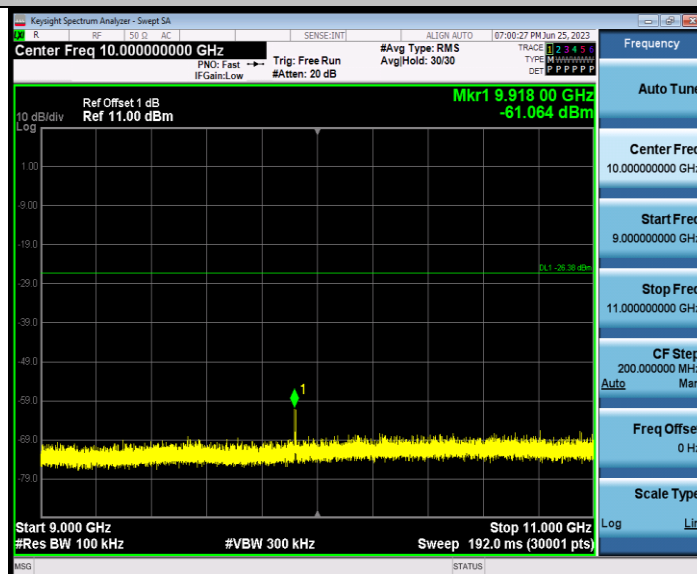
ZIGB\_Ant1\_2480\_5000~7000



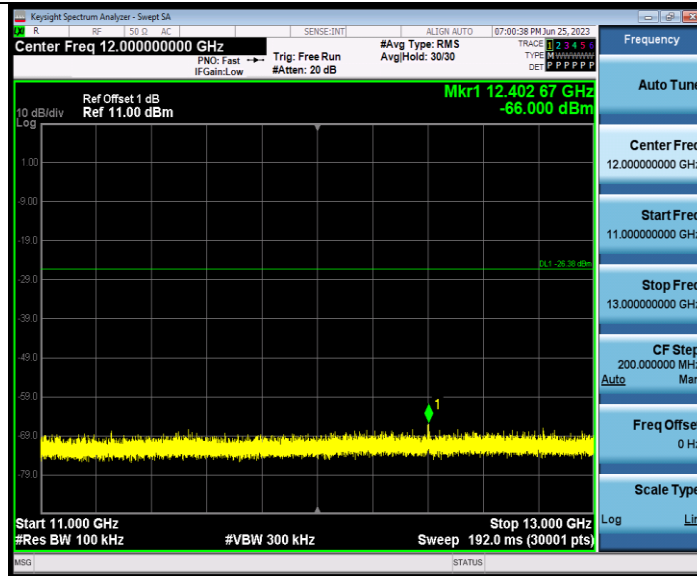
ZIGB\_Ant1\_2480\_7000~9000



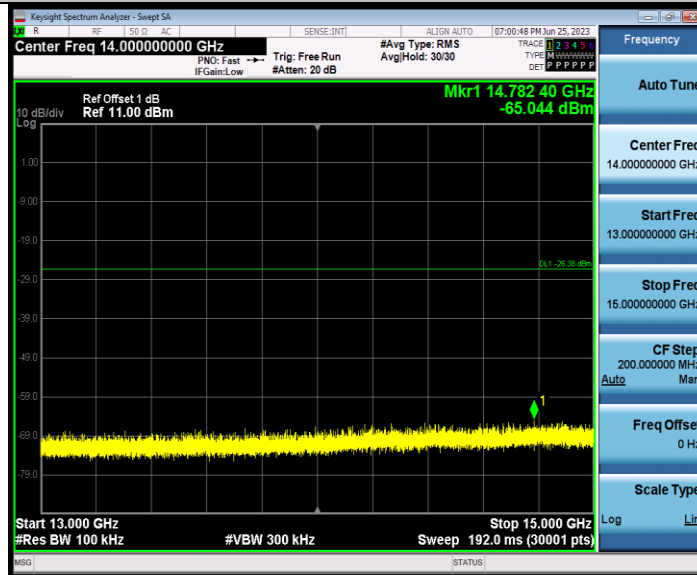
ZIGB\_Ant1\_2480\_9000~11000



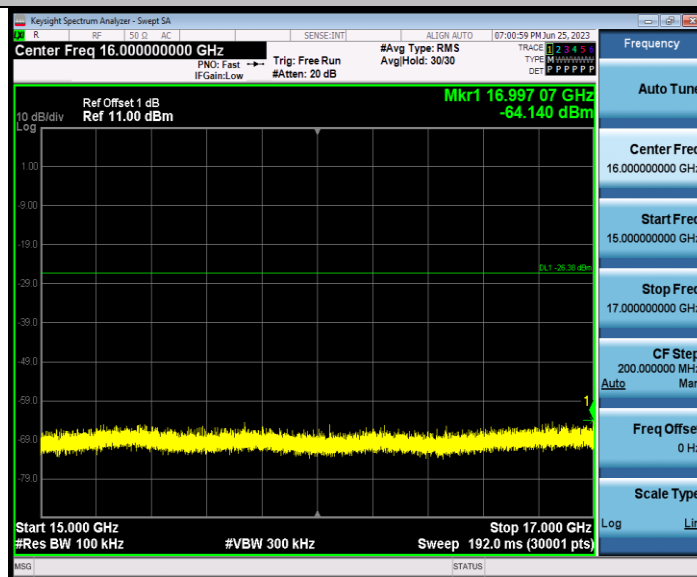
ZIGB\_Ant1\_2480\_11000~13000



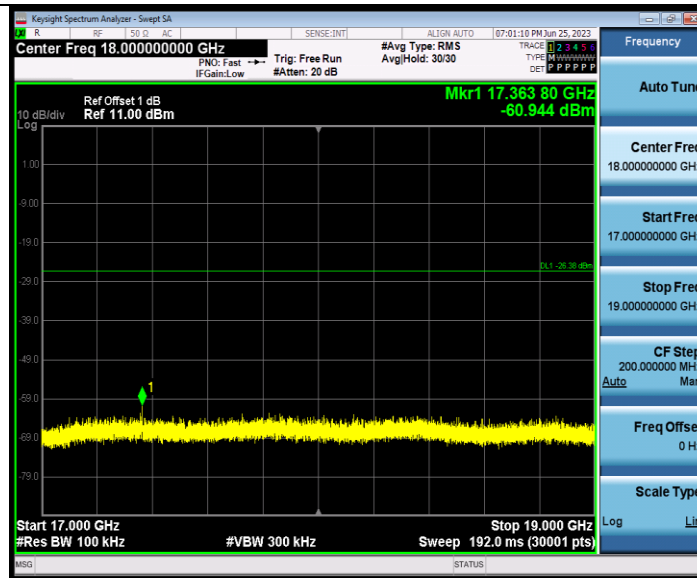
ZIGB\_Ant1\_2480\_13000~15000



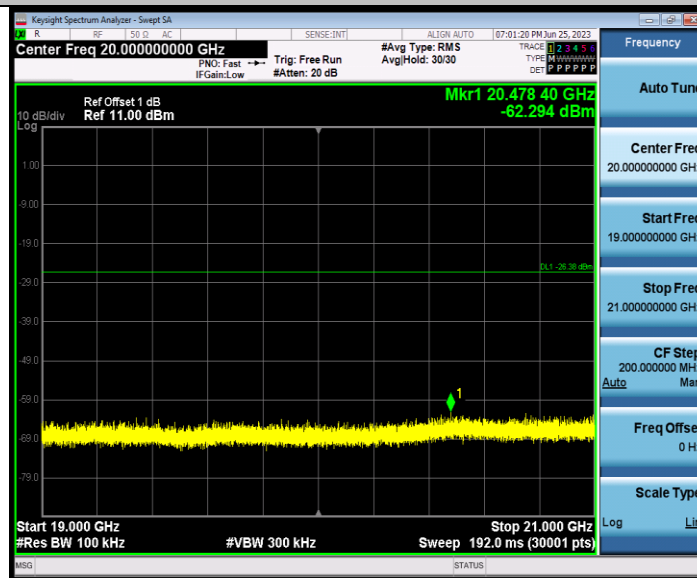
ZIGB\_Ant1\_2480\_15000~17000



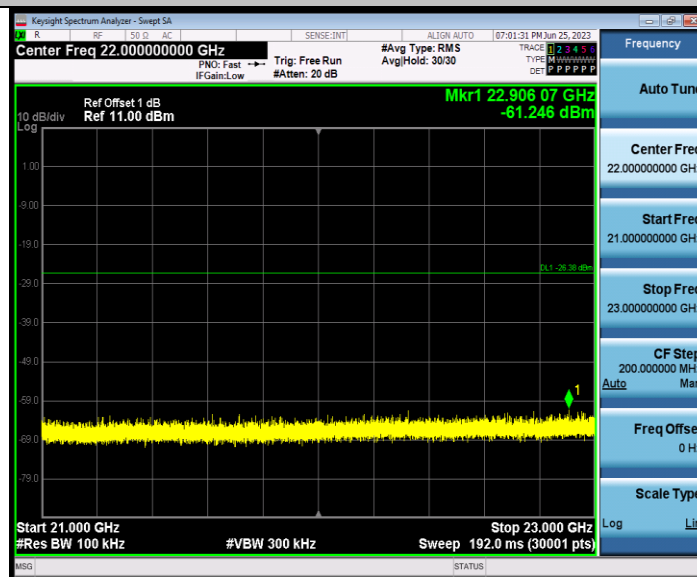
ZIGB\_Ant1\_2480\_17000~19000



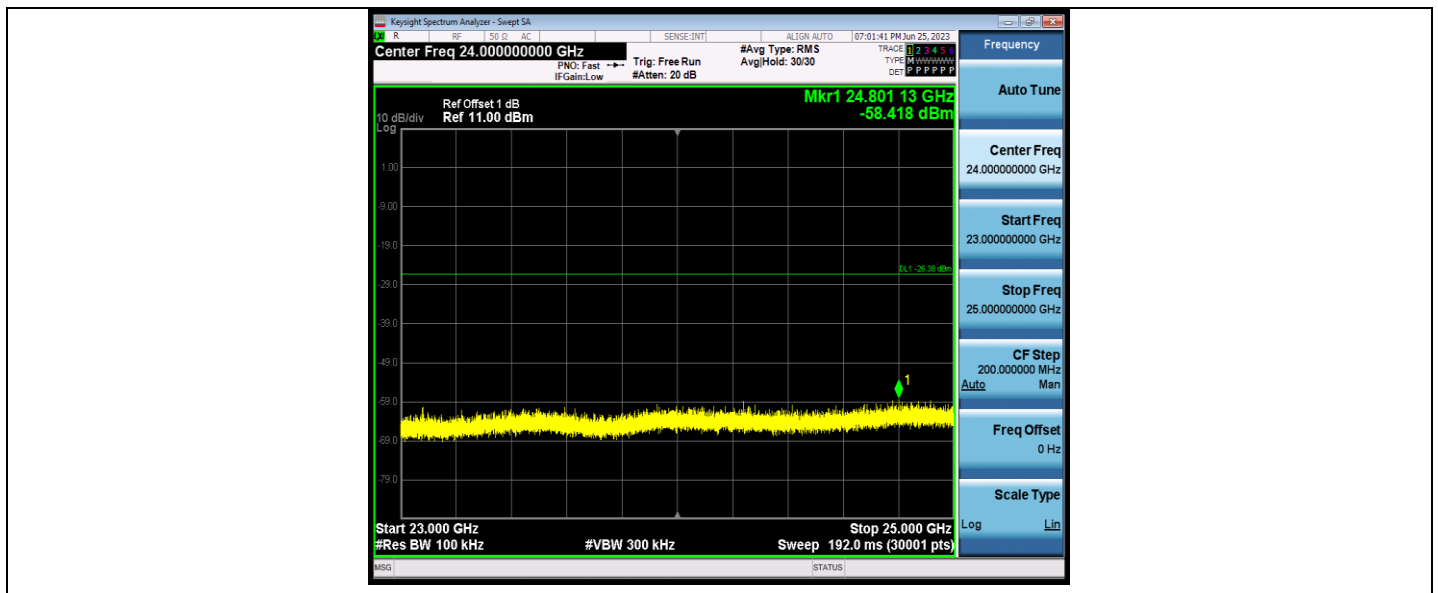
ZIGB\_Ant1\_2480\_19000~21000



ZIGB\_Ant1\_2480\_21000~23000



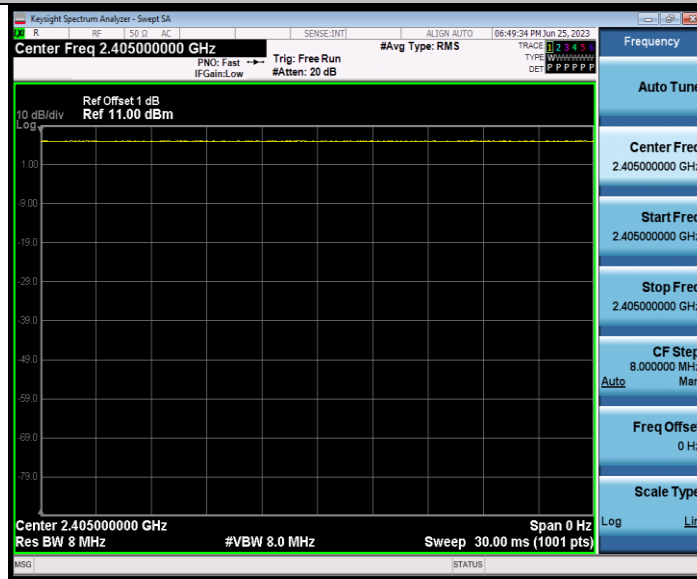
ZIGB\_Ant1\_2480\_23000~25000



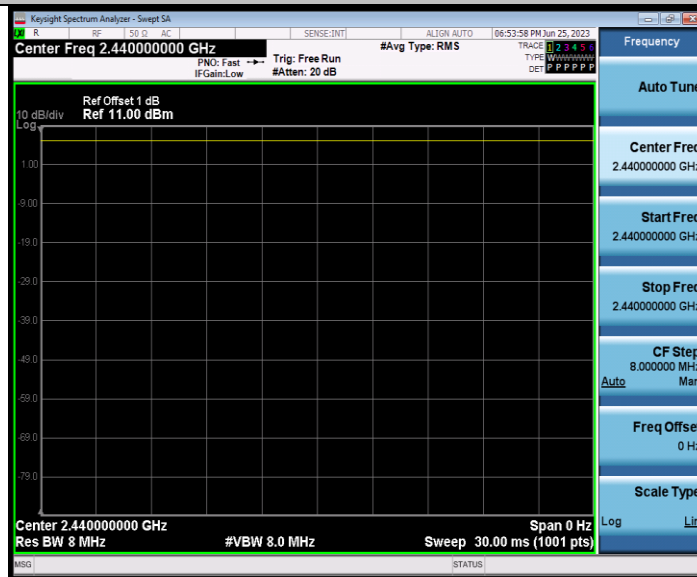
### Appendix G: Duty Cycle

TestMode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
ZIGB	2405	0.00	0.00	100
	2440	0.00	0.00	100
	2480	0.00	0.00	100

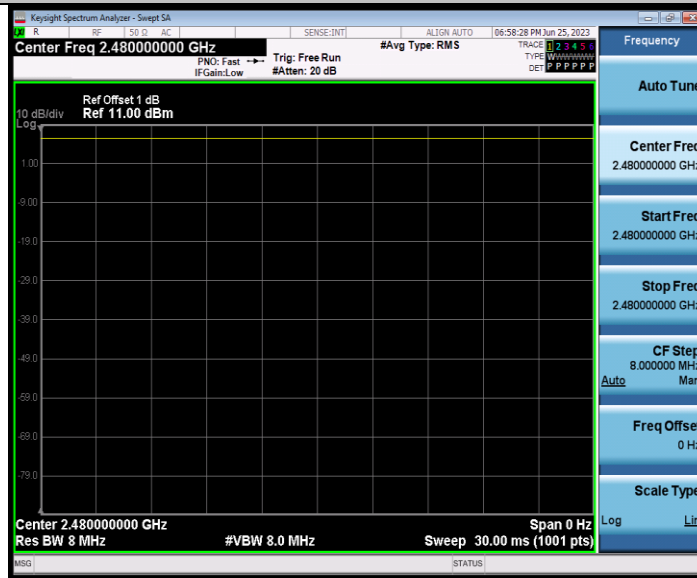
ZIGB\_Ant1\_2405



ZIGB\_Ant1\_2440

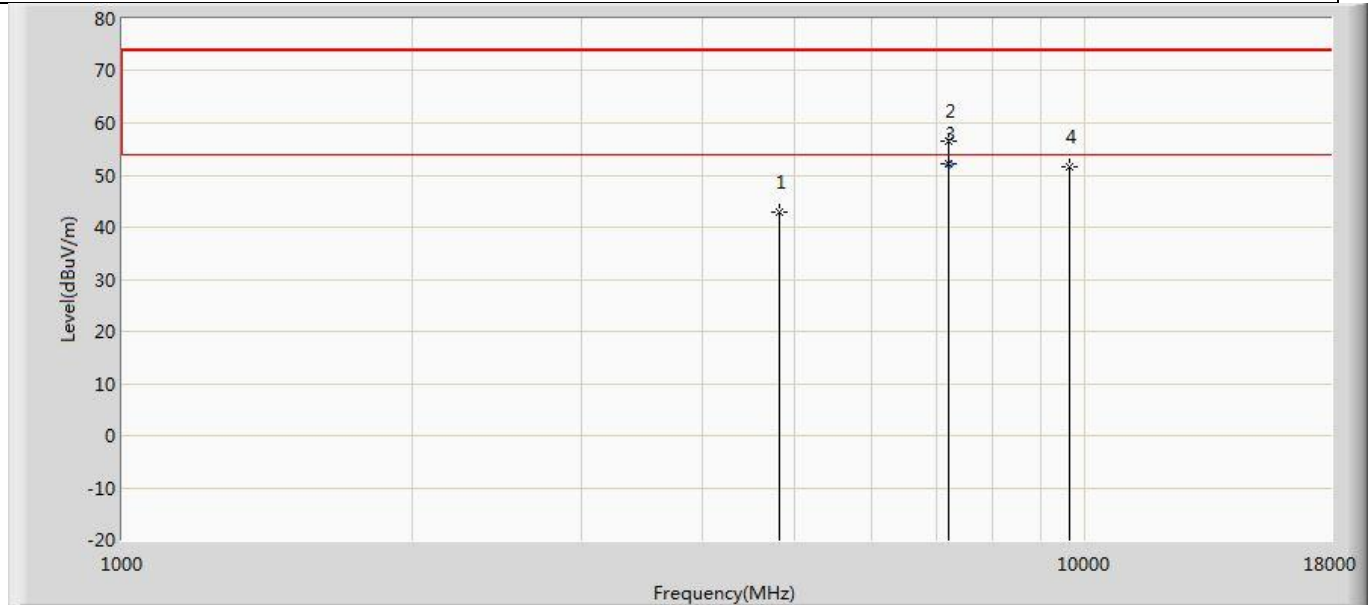


ZIGB\_Ant1\_2480



## Appendix H: Emissions in Restricted Bands

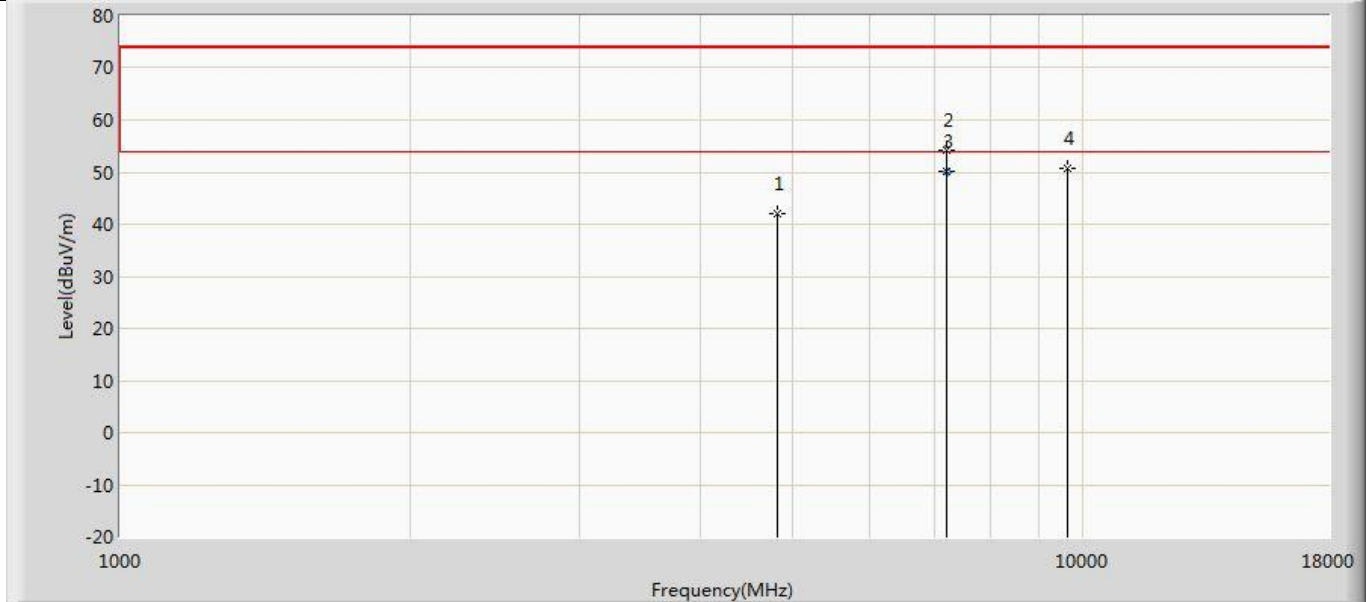
Profile: 2350756R	Page No.: 7
Engineer: Yuliu	
Site: AC5	Time: 2023/06/20 - 20:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	42.973	57.064	-31.027	74.000	-14.092	PK
2		7205.000	56.532	64.910	-17.468	74.000	-8.378	PK
3	*	7216.510	52.147	60.520	-1.853	54.000	-8.373	AV
4		9620.000	51.499	55.193	-22.501	74.000	-3.693	PK

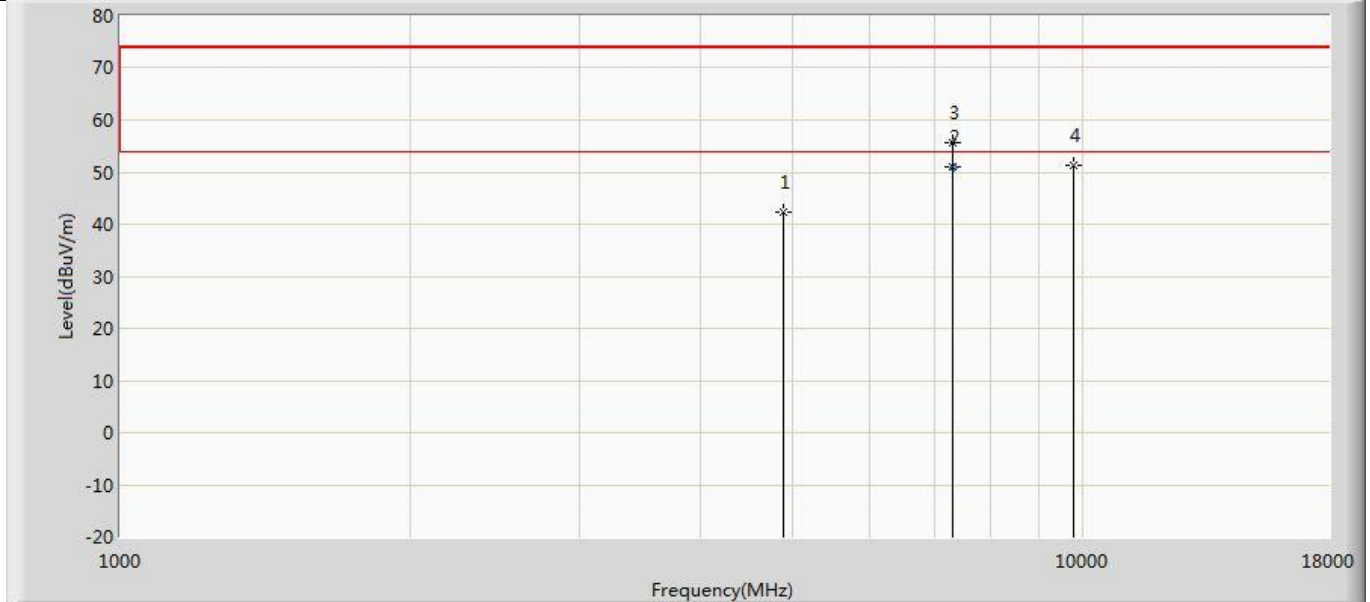


Profile: 2350756R	Page No.: 8
Engineer: Yuliu	
Site: AC5	Time: 2023/06/20 - 20:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



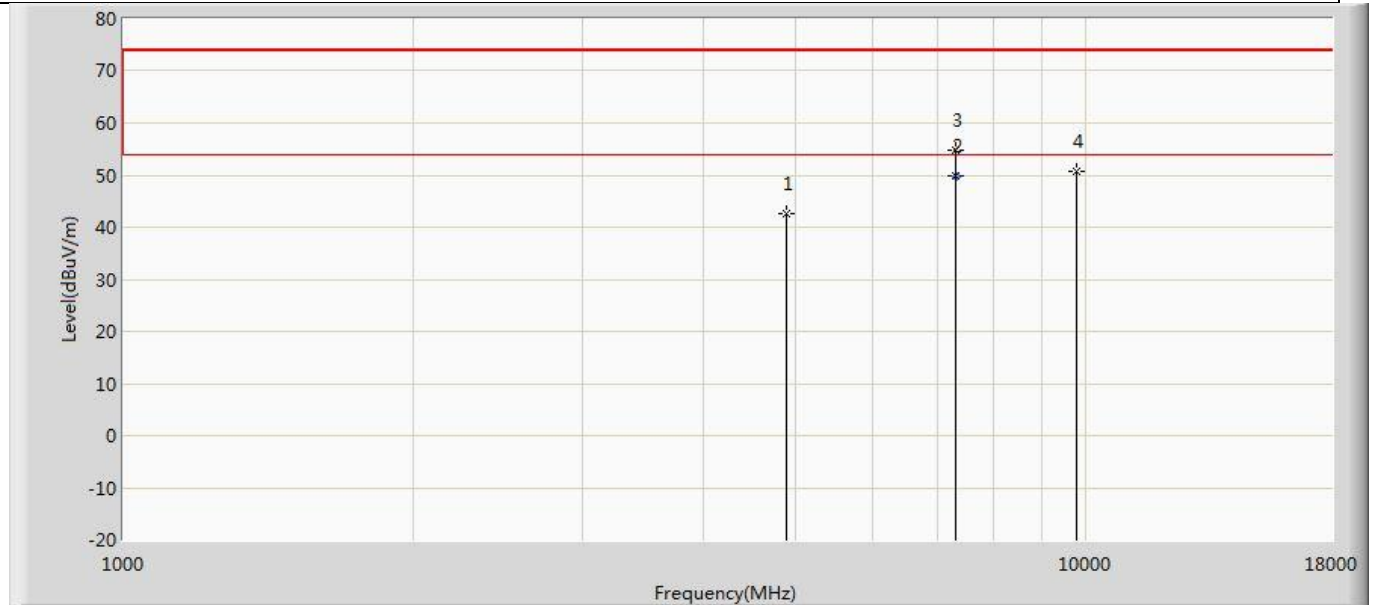
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4810.000	42.149	56.240	-31.851	74.000	-14.092	PK
2		7205.000	54.287	62.665	-19.713	74.000	-8.378	PK
3	*	7216.440	50.237	58.610	-3.763	54.000	-8.373	AV
4		9620.000	50.867	54.561	-23.133	74.000	-3.693	PK

Profile: 2350756R	Page No.: 9
Engineer: Yuliu	
Site: AC5	Time: 2023/06/20 - 20:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



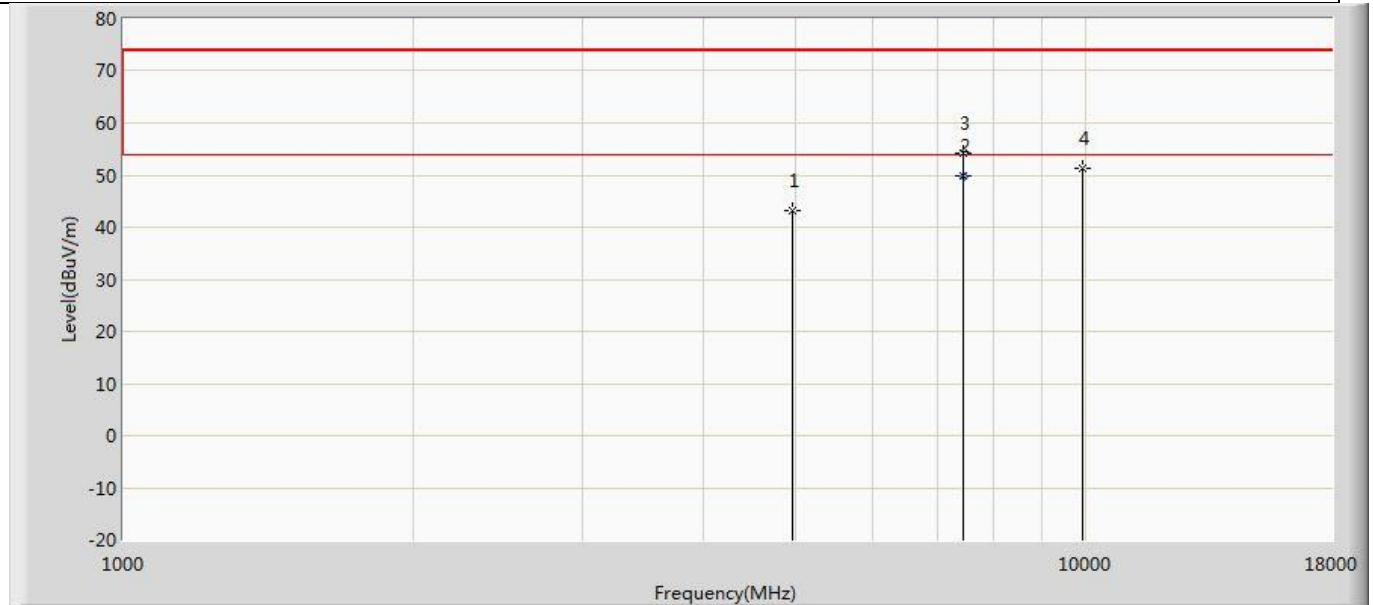
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	42.184	55.869	-31.816	74.000	-13.685	PK
2	*	7318.380	51.087	59.470	-2.913	54.000	-8.384	AV
3		7324.000	55.641	64.014	-18.359	74.000	-8.373	PK
4		9760.000	51.208	54.671	-22.792	74.000	-3.463	PK

Profile: 2350756R	Page No.: 10
Engineer: Yuliu	
Site: AC5	Time: 2023/06/20 - 21:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2440MHz by Zigbee	



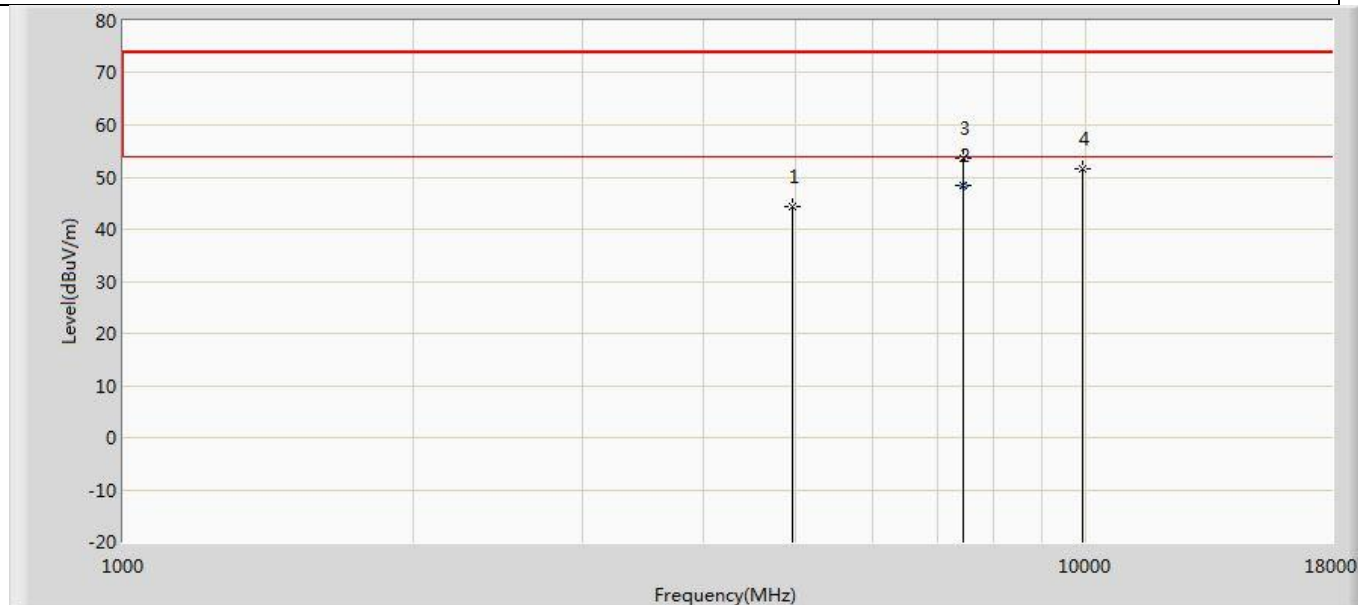
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	42.672	56.357	-31.328	74.000	-13.685	PK
2	*	7321.470	49.733	58.110	-4.267	54.000	-8.378	AV
3		7324.000	54.712	63.085	-19.288	74.000	-8.373	PK
4		9760.000	50.723	54.186	-23.277	74.000	-3.463	PK

Profile: 2350756R	Page No.: 11
Engineer: Yuliu	
Site: AC5	Time: 2023/06/20 - 21:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	43.110	56.632	-30.890	74.000	-13.522	PK
2	*	7441.420	49.842	57.830	-4.158	54.000	-7.987	AV
3		7443.000	54.325	62.334	-19.675	74.000	-8.009	PK
4		9920.000	51.215	54.166	-22.785	74.000	-2.951	PK

Profile: 2350756R	Page No.: 12
Engineer: Yuliu	
Site: AC5	Time: 2023/06/20 - 21:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by Zigbee	



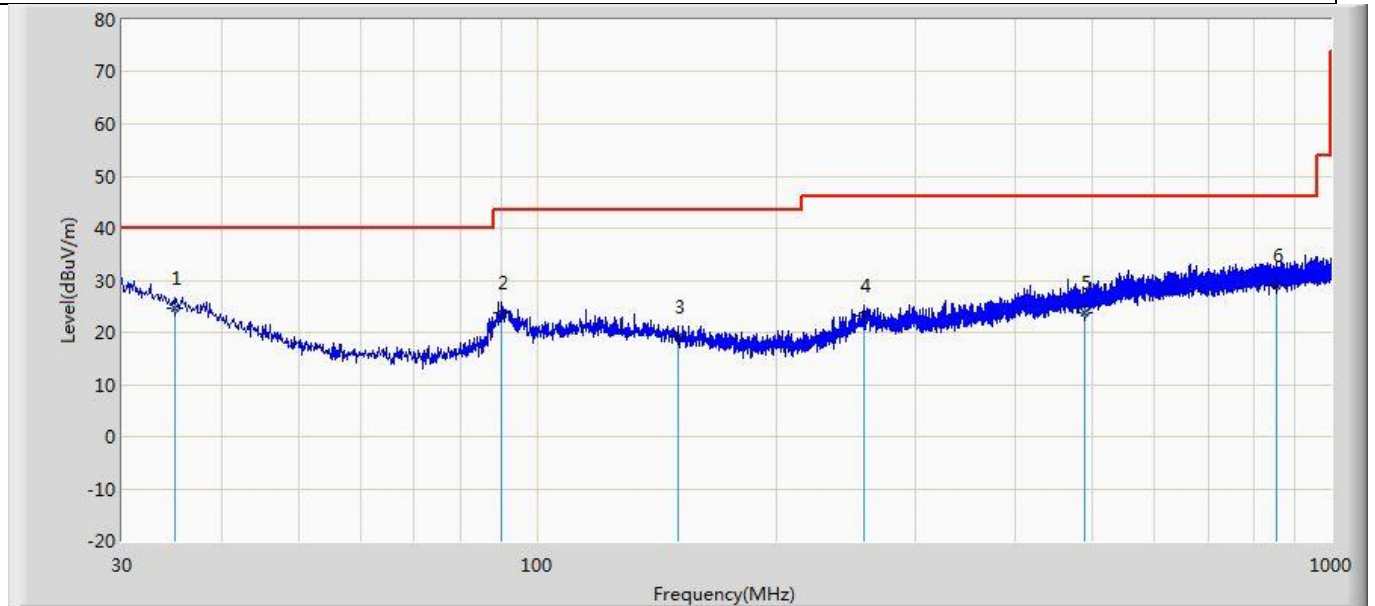
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	44.308	57.830	-29.692	74.000	-13.522	PK
2	*	7441.510	48.261	56.250	-5.739	54.000	-7.988	AV
3		7443.000	53.637	61.646	-20.363	74.000	-8.009	PK
4		9920.000	51.725	54.676	-22.275	74.000	-2.951	PK

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
3. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.
4. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

**The worst case of Radiated Emission below 1GHz :**

Profile: 2350756R	Page No.: 213
Engineer: Yuliu	
Site: AC3	Time: 2023/06/10 - 00:20
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M(30-1000M)-0050-2933	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	

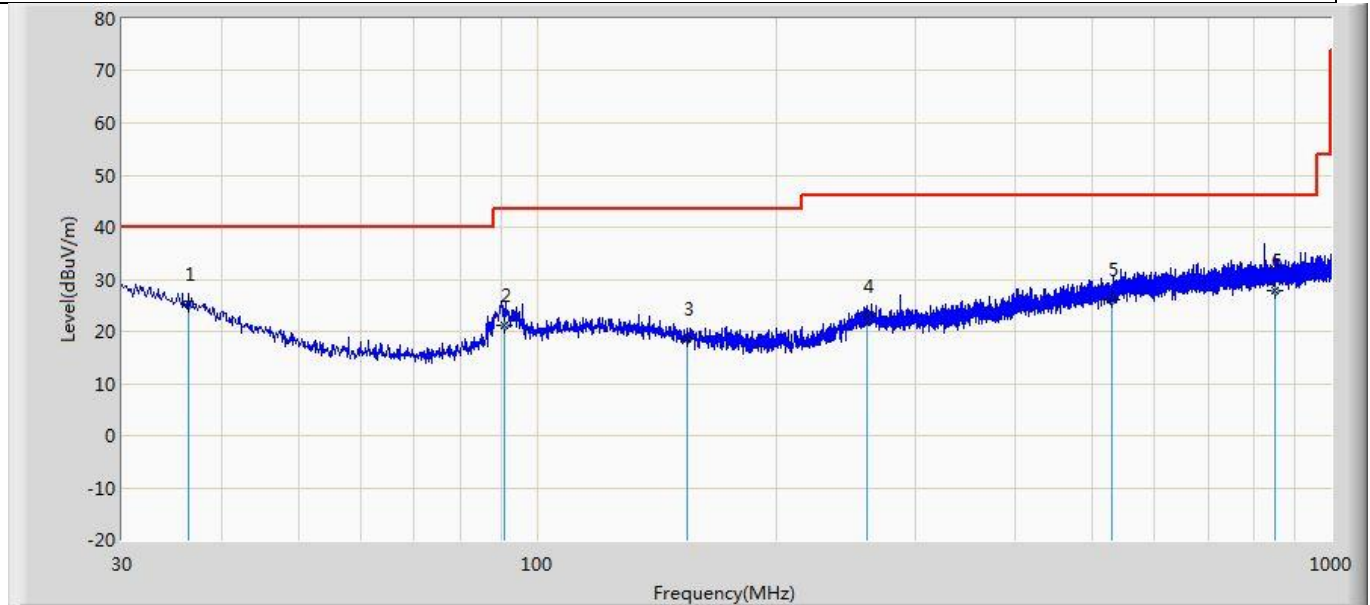


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	34.971	24.590	1.522	-15.410	40.000	23.067	QP
2		90.261	23.803	7.638	-19.697	43.500	16.165	QP
3		150.401	19.168	1.768	-24.332	43.500	17.400	QP
4		257.586	23.216	2.225	-22.784	46.000	20.991	QP
5		488.689	23.806	-1.537	-22.194	46.000	25.343	QP
6		855.227	28.979	-0.173	-17.021	46.000	29.153	QP

**Note:**

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

Profile: 2350756R	Page No.: 214
Engineer: Yuliu	
Site: AC3	Time: 2023/06/10 - 00:22
Limit: FCC_Part 15.209_RE (3m)_	Margin: 0
Probe: AC3_3M(30-1000M)-0050-2933	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2405MHz by Zigbee	



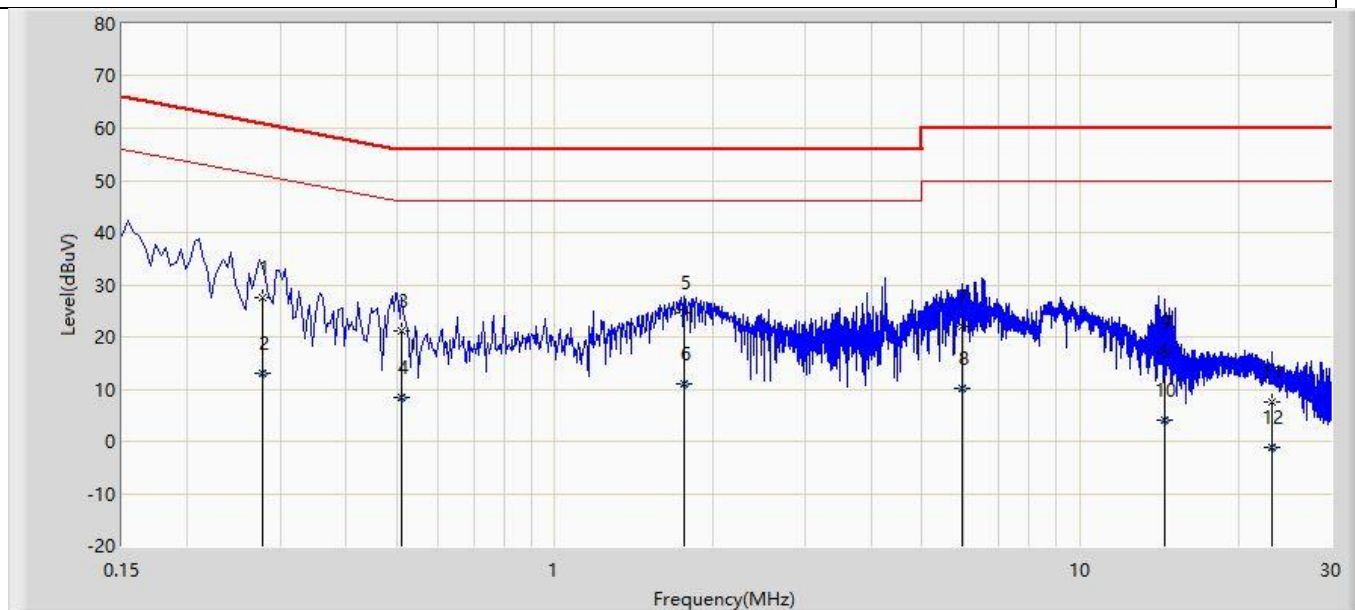
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	36.305	25.233	2.937	-14.767	40.000	22.296	QP
2		90.746	21.259	4.977	-22.241	43.500	16.282	QP
3		154.766	18.551	1.330	-24.949	43.500	17.221	QP
4		260.739	22.933	1.796	-23.067	46.000	21.137	QP
5		530.641	25.991	0.008	-20.009	46.000	25.983	QP
6		850.741	27.750	-1.392	-18.250	46.000	29.142	QP

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)

### Appendix I: AC Power Line Conducted Emission

Profile: 2350756R	Page No.: 181
Engineer: Yuliu	
Site: TR1	Time: 2023/06/10 - 01:36
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode1	



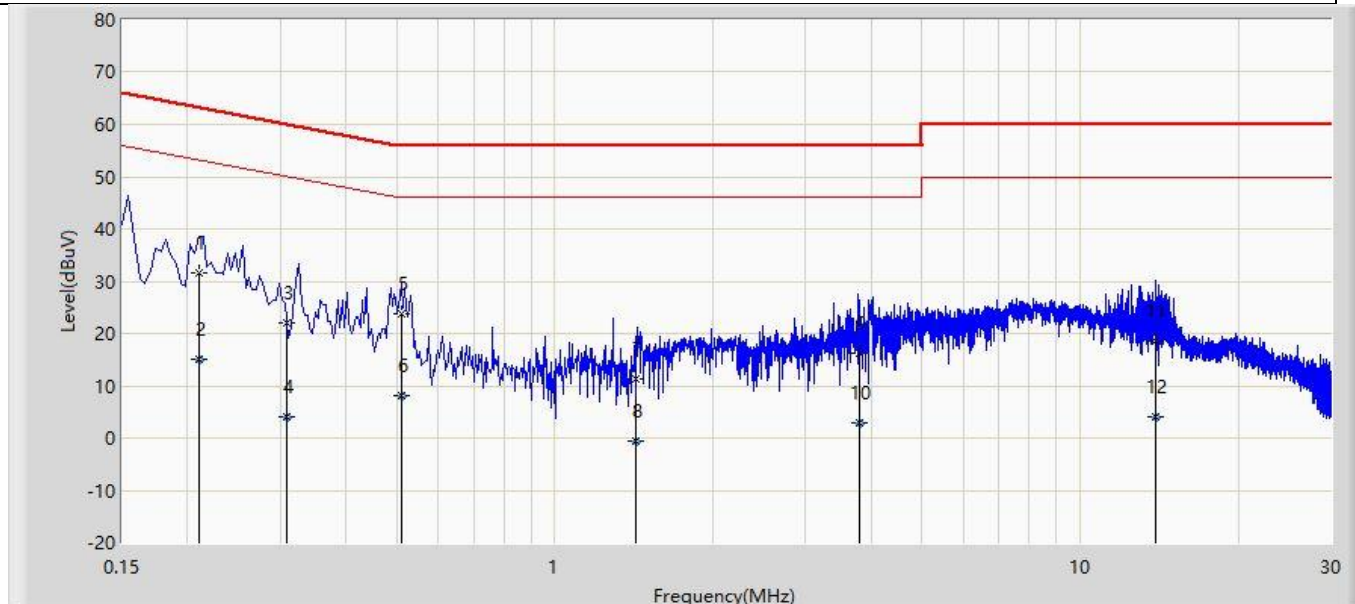
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.277	27.526	17.968	-33.378	60.904	9.558	QP
2		0.277	13.152	3.595	-37.751	50.904	9.558	AV
3		0.510	21.214	11.634	-34.786	56.000	9.580	QP
4		0.510	8.359	-1.220	-37.641	46.000	9.580	AV
5	*	1.766	24.548	14.958	-31.452	56.000	9.590	QP
6		1.766	10.926	1.336	-35.074	46.000	9.590	AV
7		5.946	22.035	12.342	-37.965	60.000	9.693	QP
8		5.946	10.008	0.315	-39.992	50.000	9.693	AV
9		14.518	16.962	7.071	-43.038	60.000	9.891	QP
10		14.518	4.068	-5.823	-45.932	50.000	9.891	AV
11		23.178	7.549	-2.482	-52.451	60.000	10.031	QP
12		23.178	-1.210	-11.241	-51.210	50.000	10.031	AV

Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



Profile: 2350756R	Page No.: 182
Engineer: Yuliu	
Site: TR1	Time: 2023/06/10 - 02:04
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.210	31.667	22.107	-31.538	63.205	9.560	QP
2		0.210	14.938	5.378	-38.267	53.205	9.560	AV
3		0.309	22.022	12.455	-37.987	60.008	9.567	QP
4		0.309	3.937	-5.630	-46.071	50.008	9.567	AV
5		0.510	23.872	14.292	-32.128	56.000	9.580	QP
6		0.510	8.245	-1.335	-37.755	46.000	9.580	AV
7		1.422	11.427	1.837	-44.573	56.000	9.590	QP
8		1.422	-0.646	-10.236	-46.646	46.000	9.590	AV
9		3.798	16.232	6.594	-39.768	56.000	9.638	QP
10		3.798	2.802	-6.836	-43.198	46.000	9.638	AV
11		13.934	18.520	8.655	-41.480	60.000	9.865	QP
12		13.934	4.101	-5.764	-45.899	50.000	9.865	AV

Note:

1. " \* ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

The End