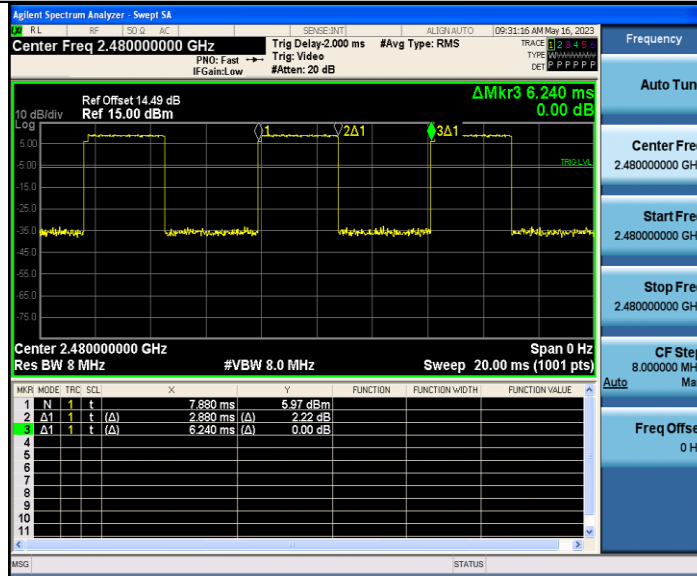
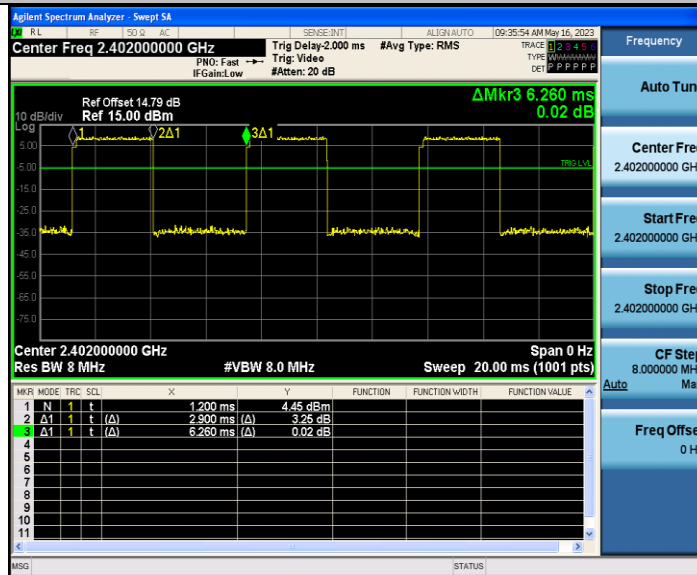


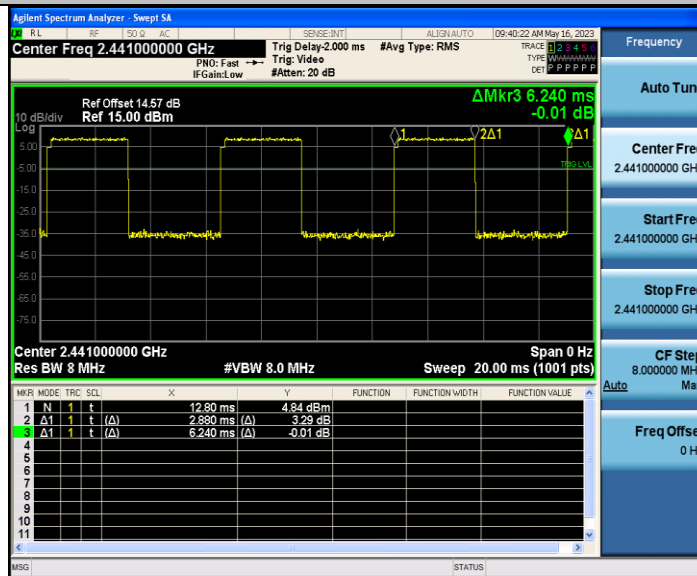
2DH5\_Ant1\_2480



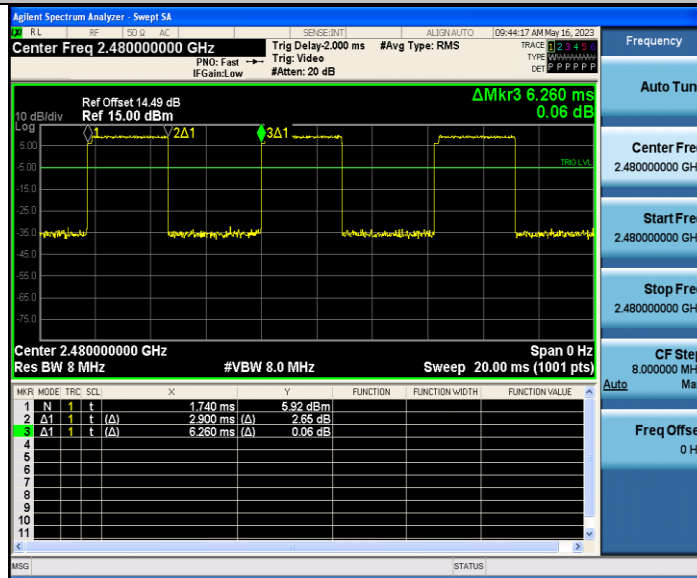
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441

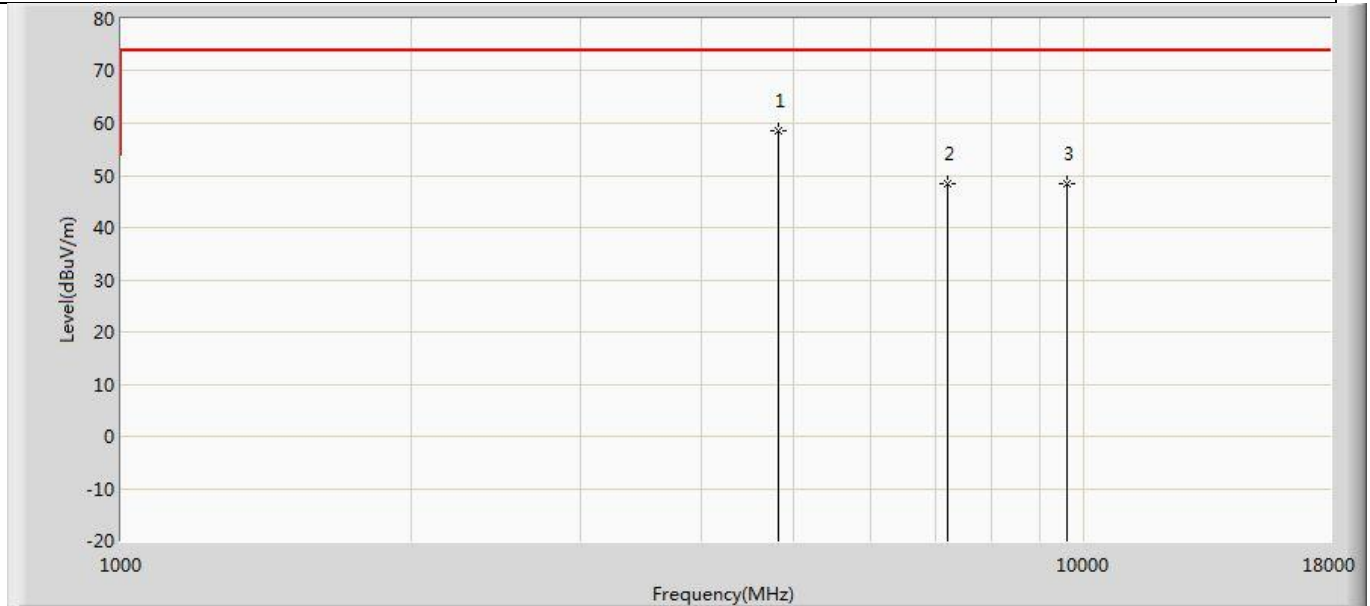


3DH5\_Ant1\_2480



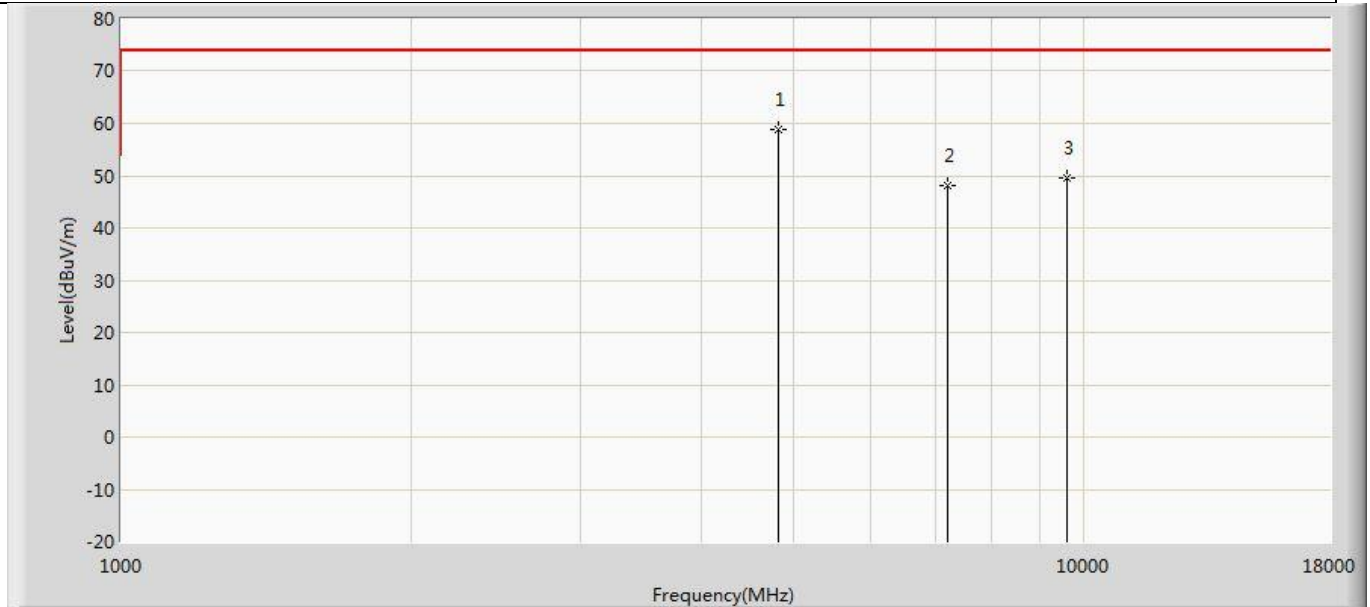
## Appendix J: Emissions in Restricted Band

Profile: 2340773R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	



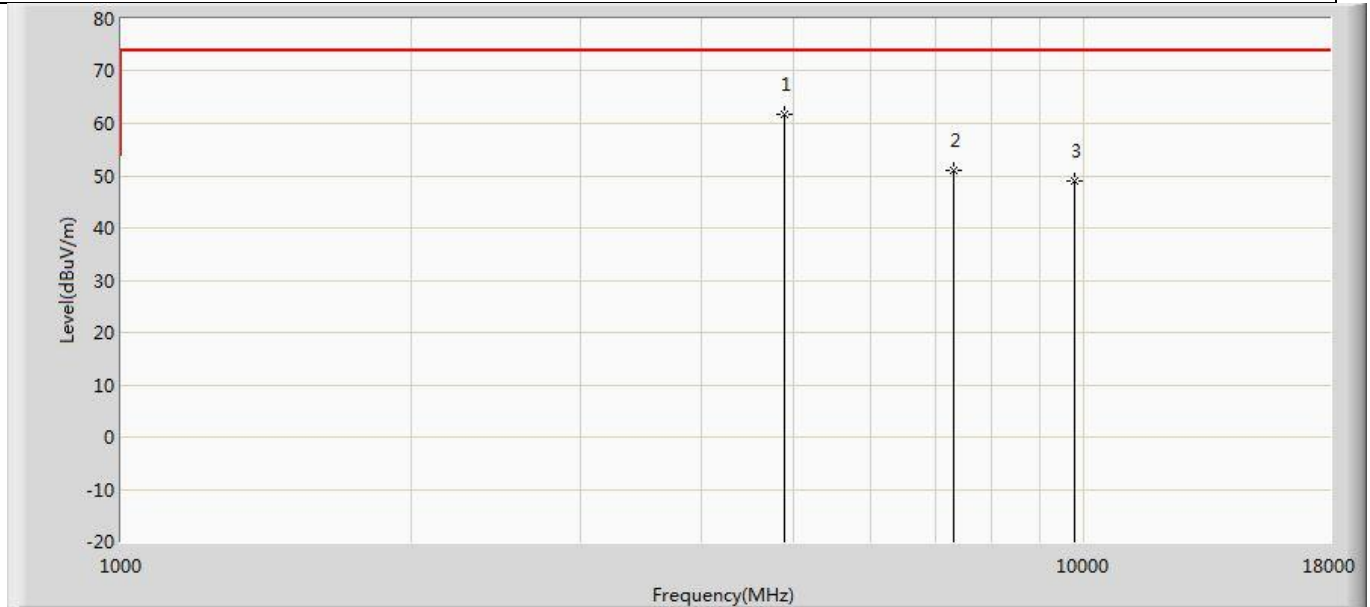
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	58.607	73.254	-15.393	74.000	-14.647	PK
2		7205.000	48.526	58.236	-25.474	74.000	-9.710	PK
3		9608.000	48.418	54.053	-25.582	74.000	-5.635	PK

Profile: 2340773R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	



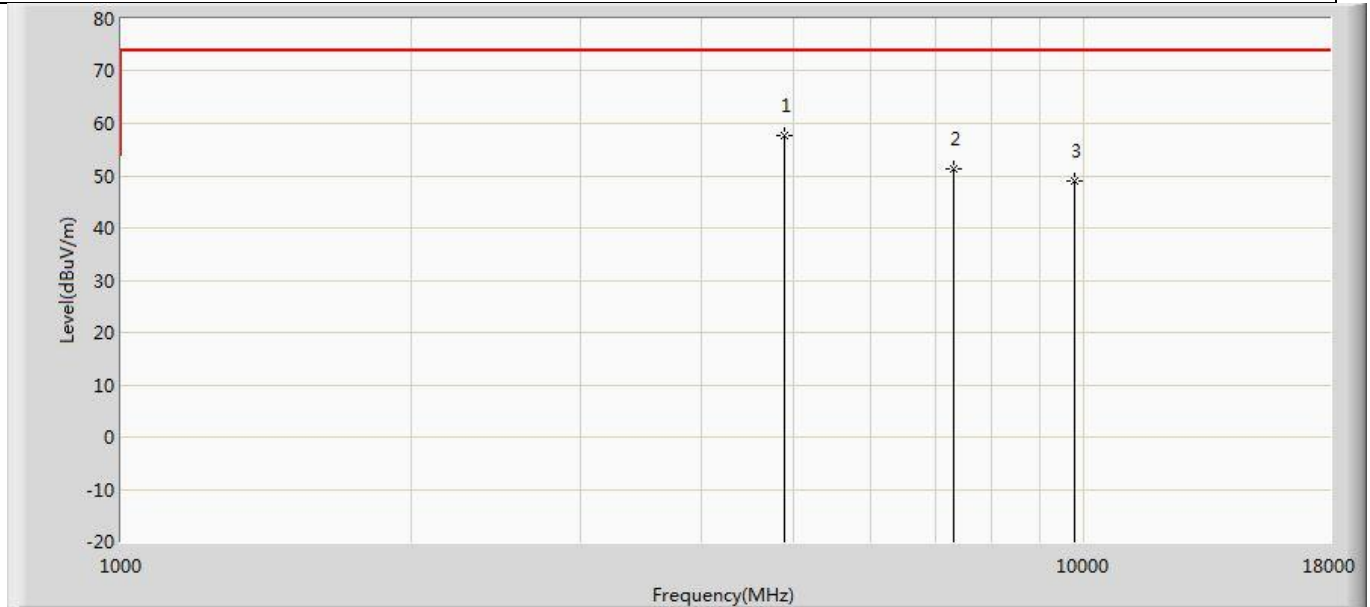
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	58.831	73.478	-15.169	74.000	-14.647	PK
2		7205.000	48.202	57.912	-25.798	74.000	-9.710	PK
3		9608.000	49.684	55.319	-24.316	74.000	-5.635	PK

Profile: 2340773R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2441MHz by DH5	



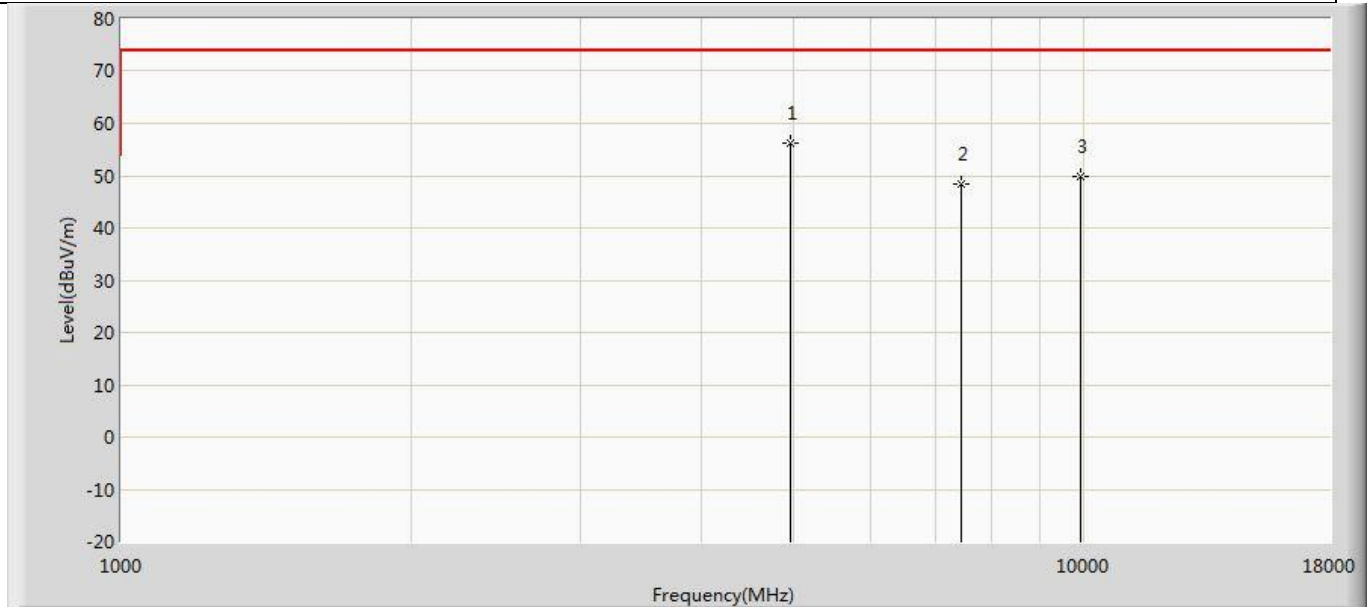
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	61.660	75.956	-12.340	74.000	-14.297	PK
2		7324.000	50.884	60.610	-23.116	74.000	-9.726	PK
3		9764.000	48.976	54.596	-25.024	74.000	-5.620	PK

Profile: 2340773R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2441MHz by DH5	



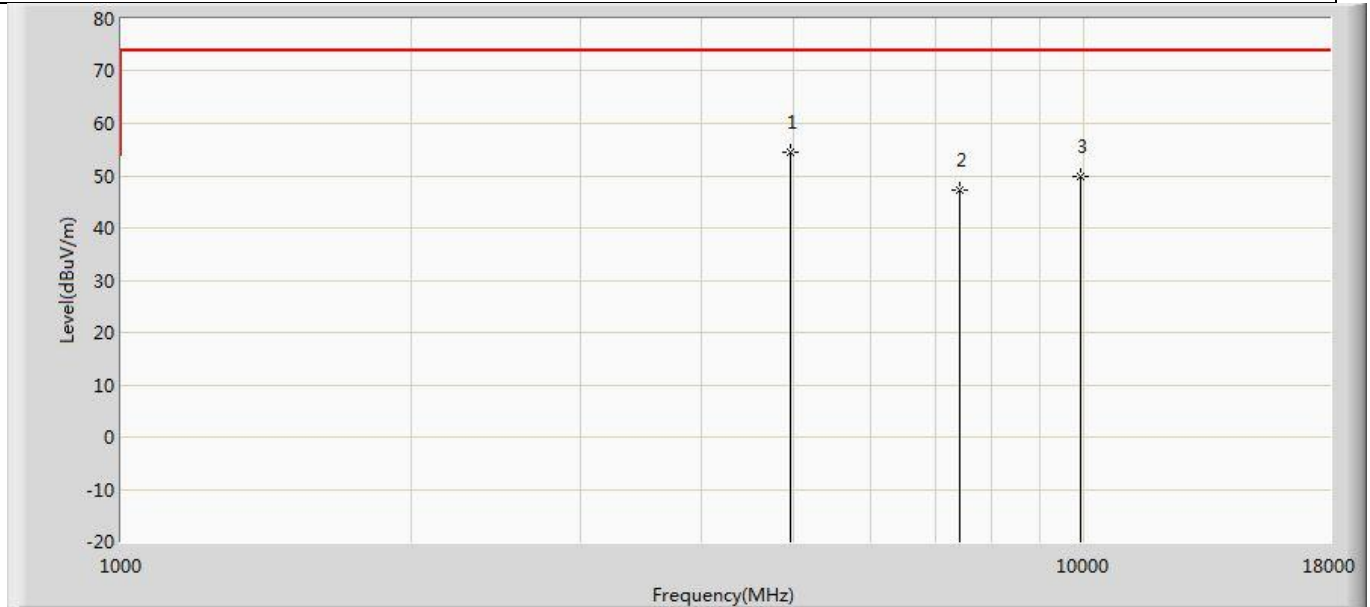
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	57.538	71.834	-16.462	74.000	-14.297	PK
2		7324.000	51.314	61.040	-22.686	74.000	-9.726	PK
3		9764.000	49.023	54.643	-24.977	74.000	-5.620	PK

Profile: 2340773R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2480MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	56.207	70.340	-17.793	74.000	-14.133	PK
2		7443.000	48.405	57.826	-25.595	74.000	-9.421	PK
3		9920.000	49.973	54.885	-24.027	74.000	-4.912	PK

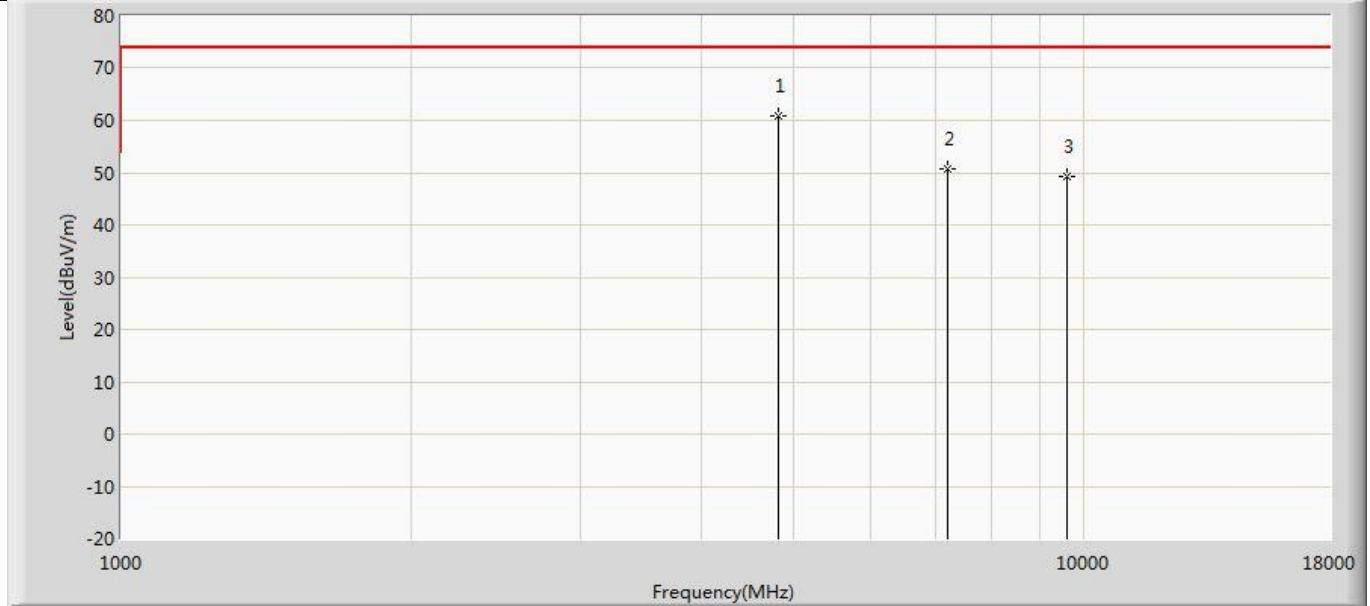
Profile: 2340773R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2480MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	54.566	68.699	-19.434	74.000	-14.133	PK
2		7440.000	47.382	56.744	-26.618	74.000	-9.362	PK
3		9920.000	49.797	54.709	-24.203	74.000	-4.912	PK

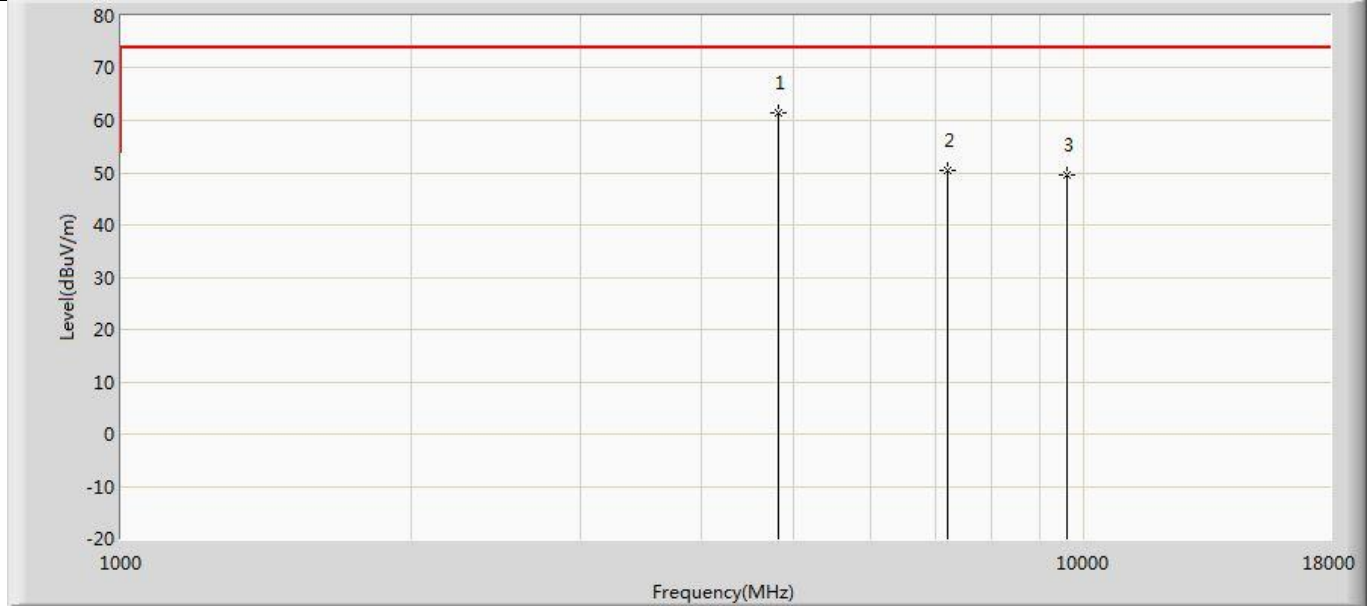


Profile: 2340773R	Page No.: 25
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



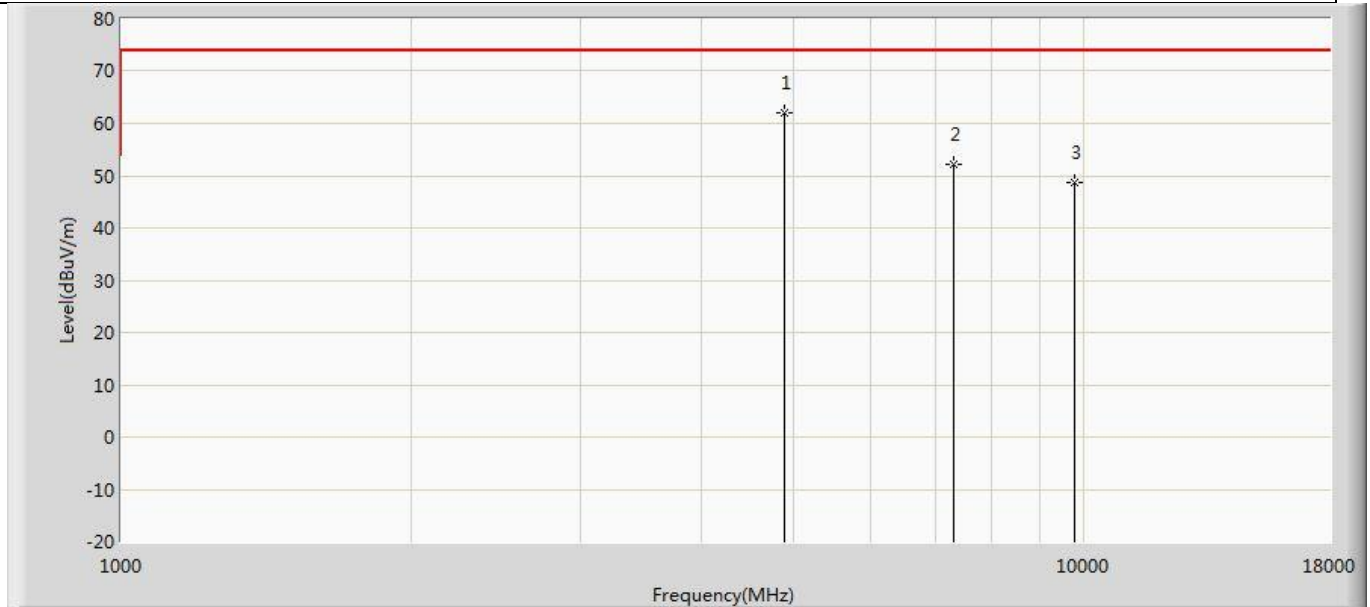
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	60.965	75.612	-13.035	74.000	-14.647	PK
2		7205.000	50.705	60.415	-23.295	74.000	-9.710	PK
3		9608.000	49.150	54.785	-24.850	74.000	-5.635	PK

Profile: 2340773R	Page No.: 26
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 21:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2402MHz by 2DH5	



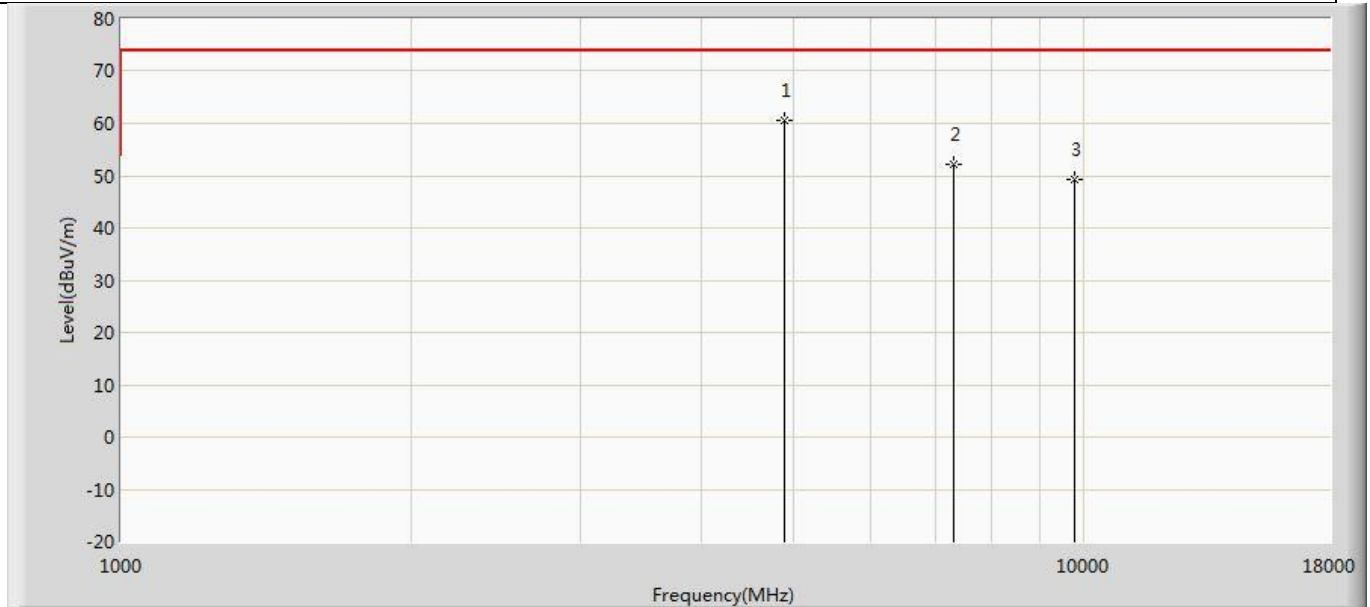
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	61.520	76.167	-12.480	74.000	-14.647	PK
2		7205.000	50.303	60.013	-23.697	74.000	-9.710	PK
3		9608.000	49.565	55.200	-24.435	74.000	-5.635	PK

Profile: 2340773R	Page No.: 27
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2441MHz by 2DH5	



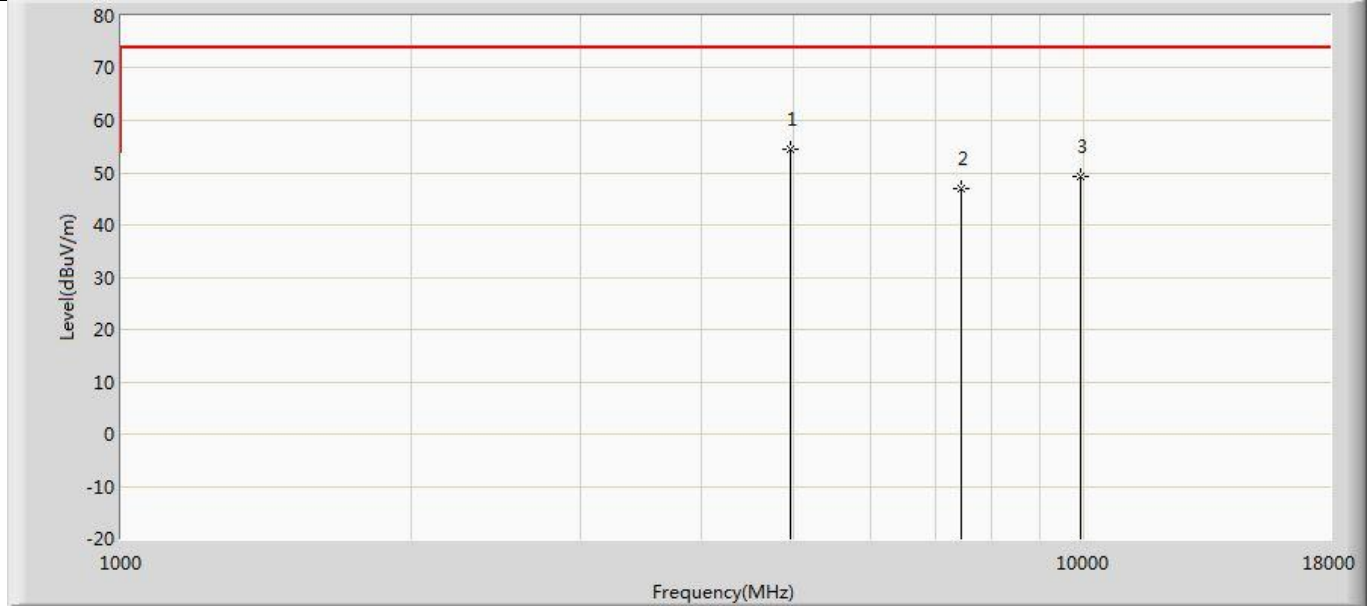
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	61.924	76.220	-12.076	74.000	-14.297	PK
2		7324.000	52.304	62.030	-21.696	74.000	-9.726	PK
3		9764.000	48.681	54.301	-25.319	74.000	-5.620	PK

Profile: 2340773R	Page No.: 28
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2441MHz by 2DH5	



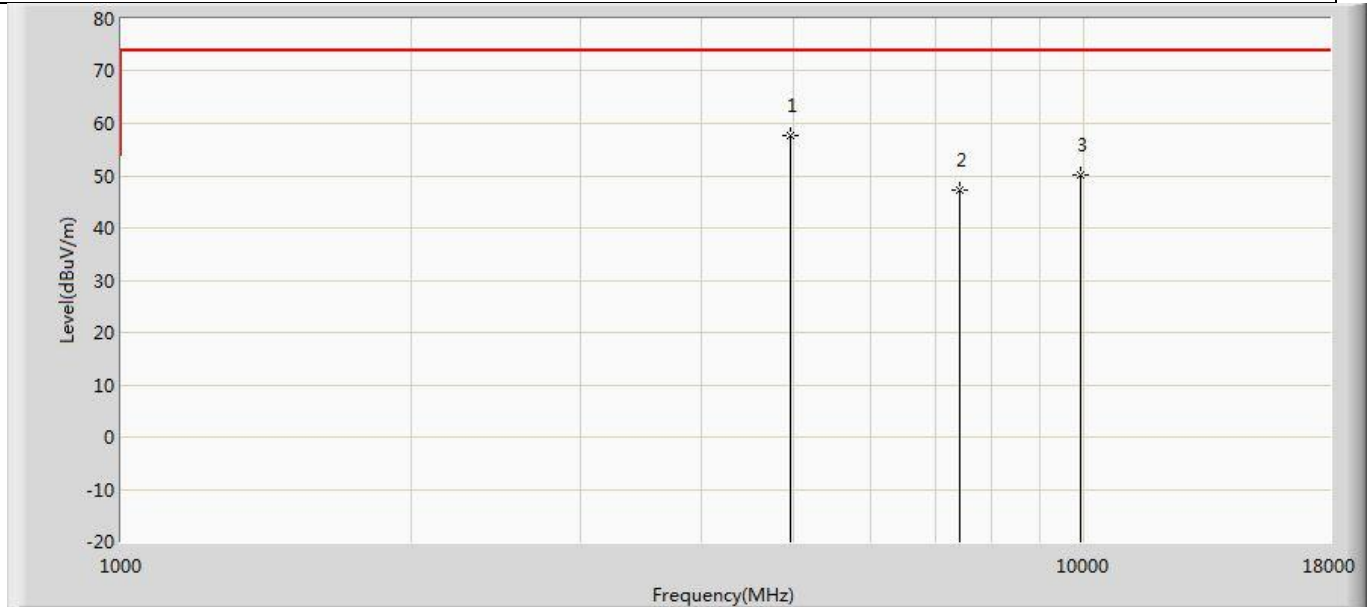
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	60.605	74.901	-13.395	74.000	-14.297	PK
2		7324.000	52.137	61.863	-21.863	74.000	-9.726	PK
3		9764.000	49.307	54.927	-24.693	74.000	-5.620	PK

Profile: 2340773R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



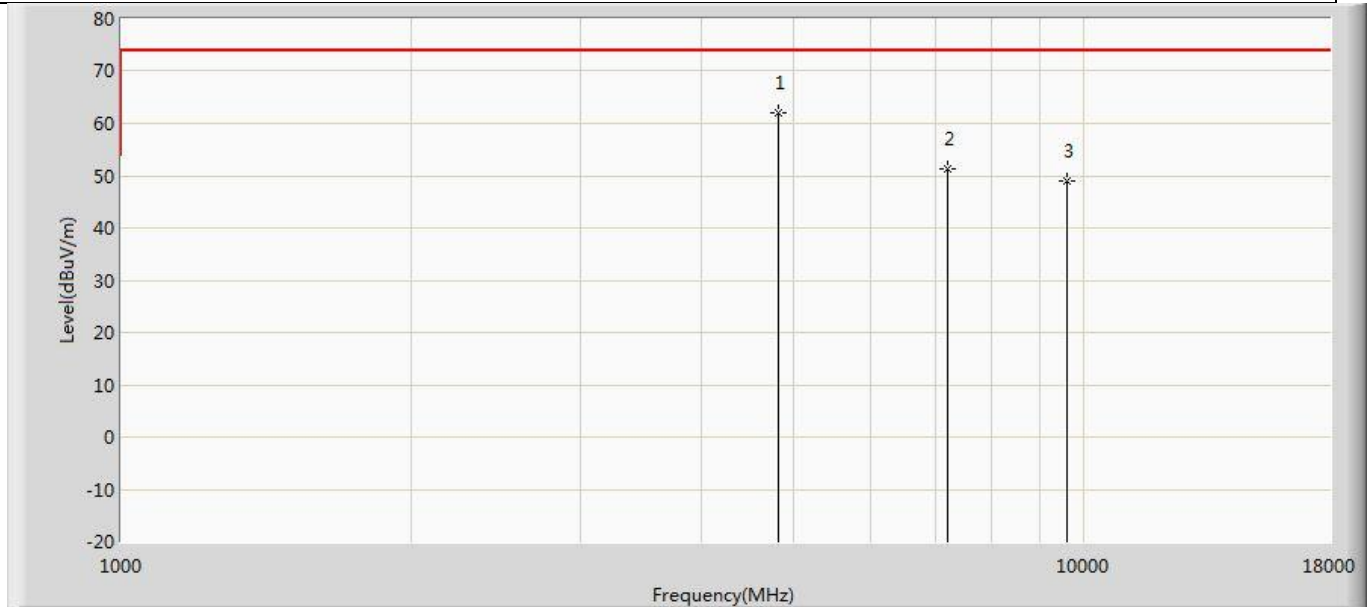
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	54.566	68.699	-19.434	74.000	-14.133	PK
2		7443.000	46.840	56.261	-27.160	74.000	-9.421	PK
3		9920.000	49.309	54.221	-24.691	74.000	-4.912	PK

Profile: 2340773R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 2 : Transmit at 2480MHz by 2DH5	



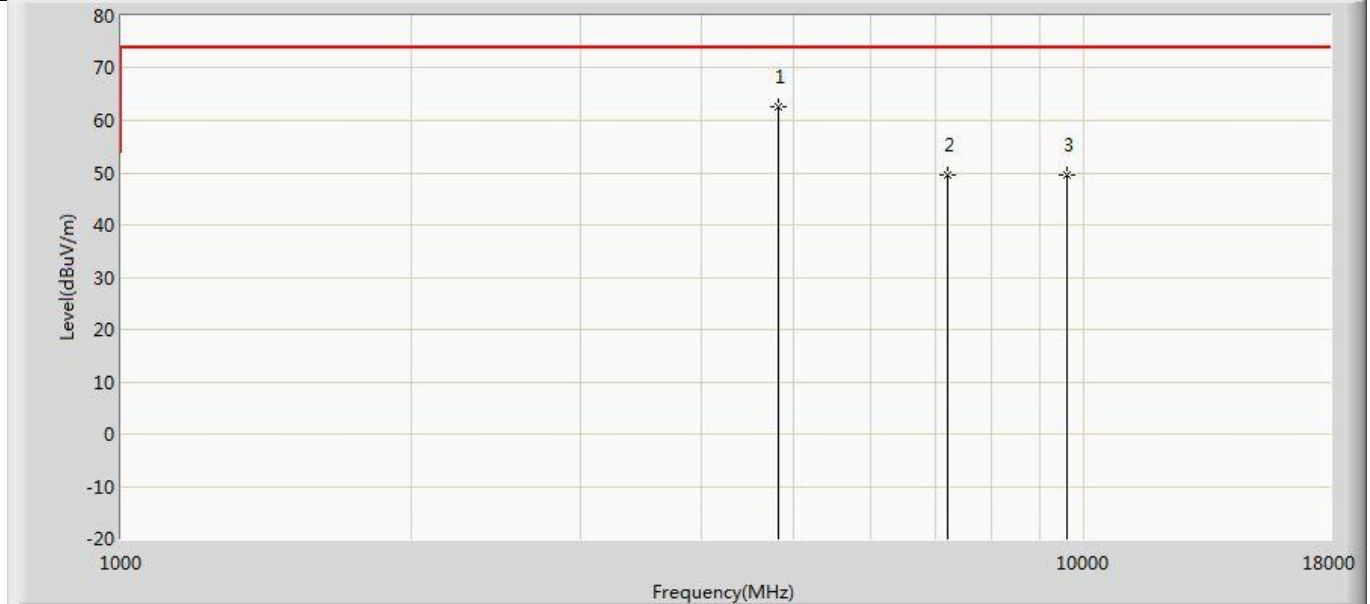
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	57.614	71.747	-16.386	74.000	-14.133	PK
2		7440.000	47.139	56.501	-26.861	74.000	-9.362	PK
3		9920.000	50.265	55.177	-23.735	74.000	-4.912	PK

Profile: 2340773R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	61.956	76.603	-12.044	74.000	-14.647	PK
2		7205.000	51.290	61.000	-22.710	74.000	-9.710	PK
3		9608.000	48.877	54.512	-25.123	74.000	-5.635	PK

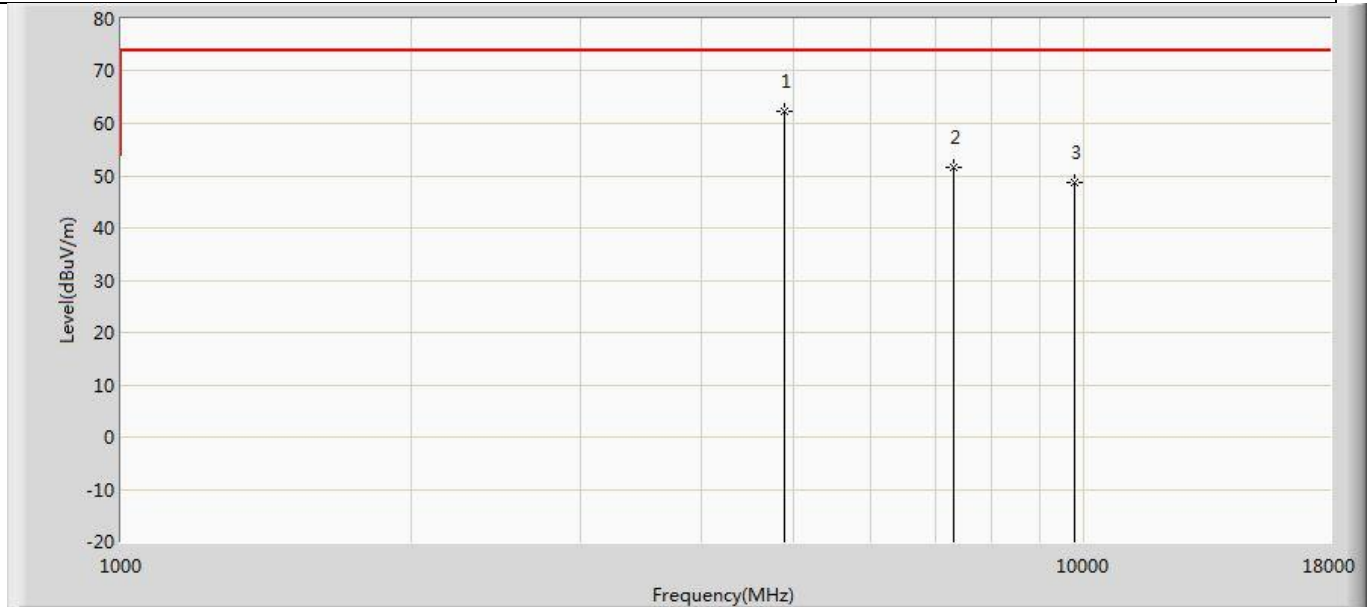
Profile: 2340773R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2402MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4808.000	62.546	77.193	-11.454	74.000	-14.647	PK
2		7205.000	49.532	59.242	-24.468	74.000	-9.710	PK
3		9608.000	49.447	55.082	-24.553	74.000	-5.635	PK

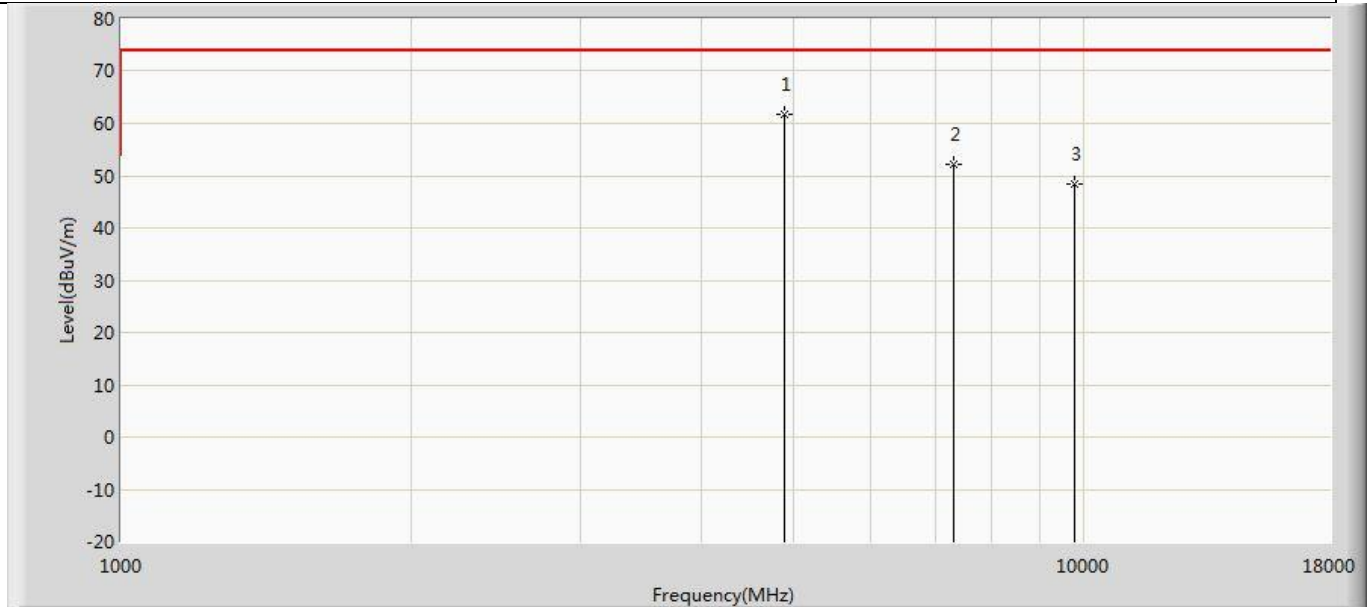


Profile: 2340773R	Page No.: 33
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2441MHz by 3DH5	



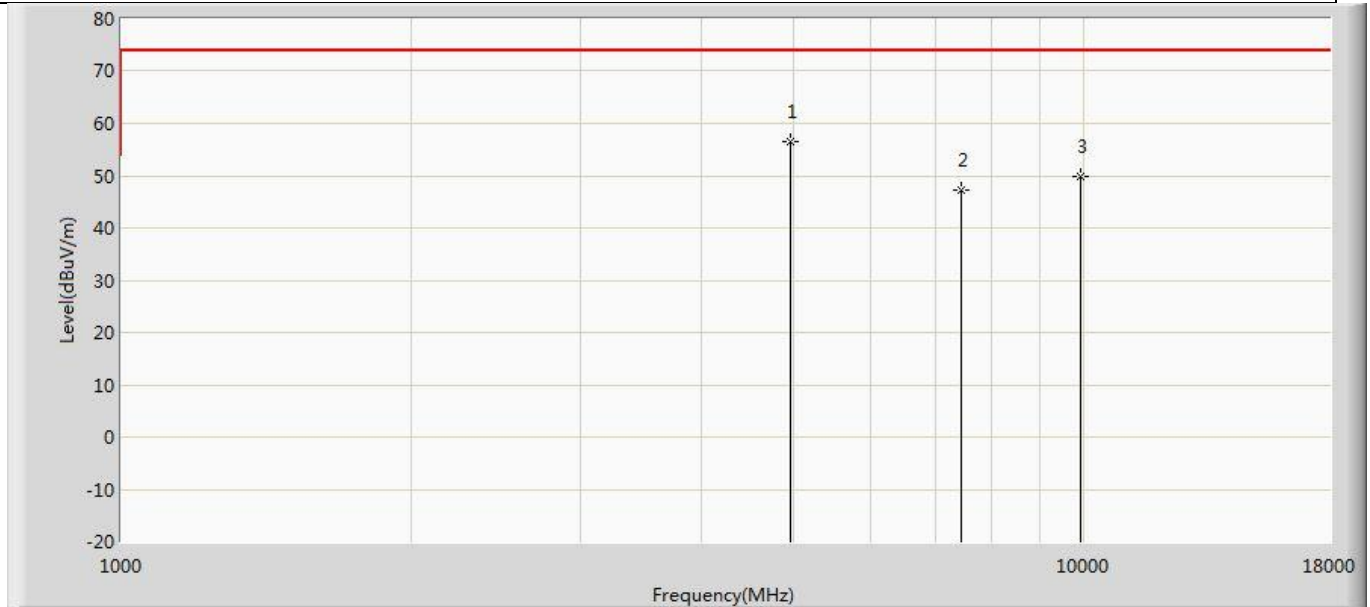
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	62.346	76.642	-11.654	74.000	-14.297	PK
2		7324.000	51.532	61.258	-22.468	74.000	-9.726	PK
3		9764.000	48.742	54.362	-25.258	74.000	-5.620	PK

Profile: 2340773R	Page No.: 34
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2441MHz by 3DH5	



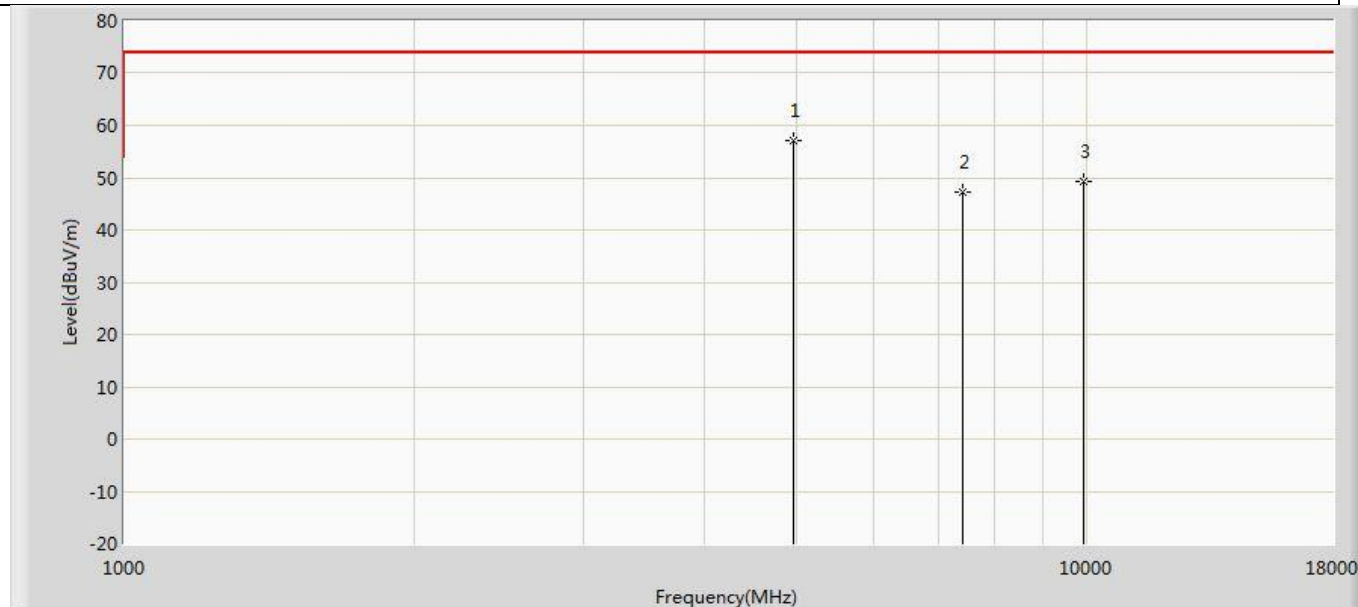
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	61.636	75.932	-12.364	74.000	-14.297	PK
2		7324.000	52.118	61.844	-21.882	74.000	-9.726	PK
3		9764.000	48.453	54.073	-25.547	74.000	-5.620	PK

Profile: 2340773R	Page No.: 35
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	56.493	70.626	-17.507	74.000	-14.133	PK
2		7443.000	47.312	56.733	-26.688	74.000	-9.421	PK
3		9920.000	49.805	54.717	-24.195	74.000	-4.912	PK

Profile: 2340773R	Page No.: 36
Engineer: Yuliu	
Site: AC5	Time: 2023/05/25 - 22:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 3 : Transmit at 2480MHz by 3DH5	



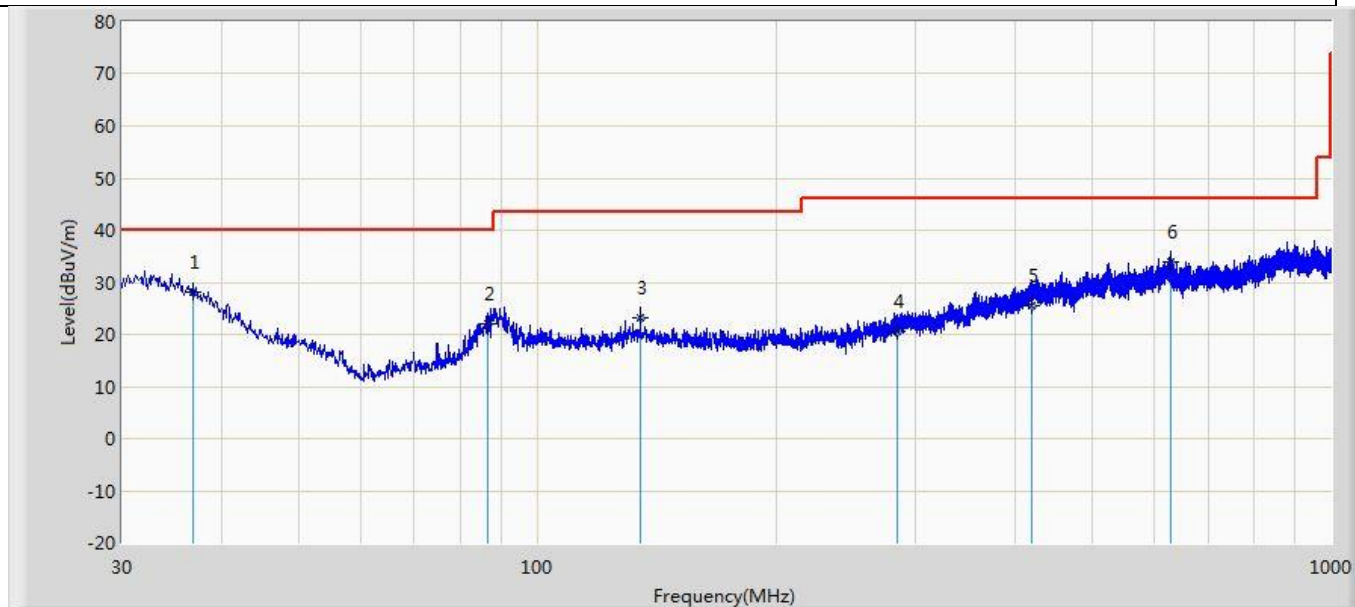
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4961.000	57.166	71.299	-16.834	74.000	-14.133	PK
2		7440.000	47.106	56.468	-26.894	74.000	-9.362	PK
3		9920.000	49.405	54.317	-24.595	74.000	-4.912	PK

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. According to FCC15.35(c), a duty cycle correction factor is applied here. For HFSS mode, maximum duty cycle will be 1.27%, which is 37.9dB. Hence this margin could cover the highest spurious above.

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

Profile: 2340773R	Page No.: 183
Engineer: Yuliu	
Site: AC3	Time: 2023/05/17 - 02:41
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M (30-1000M)	Polarity: Horizontal
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	

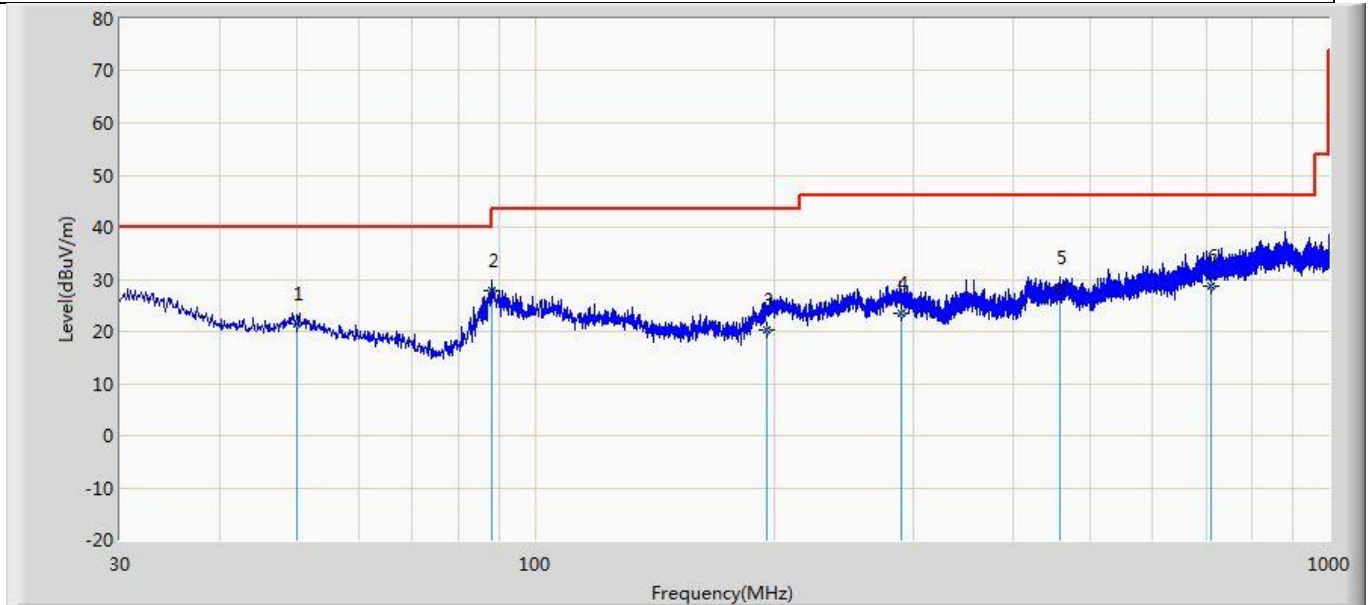


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		36.790	27.977	2.655	-12.023	40.000	25.322	QP
2		86.503	22.006	7.805	-17.994	40.000	14.201	QP
3		135.003	23.207	5.415	-20.293	43.500	17.792	QP
4		283.897	20.491	0.214	-25.509	46.000	20.277	QP
5		419.091	25.430	-1.503	-20.570	46.000	26.933	QP
6	*	628.005	34.012	3.649	-11.988	46.000	30.363	QP

**Note:**

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

Profile: 2340773R	Page No.: 184
Engineer: Yuliu	
Site: AC3	Time: 2023/05/17 - 02:45
Limit: FCC_Part 15.209_RE (3m)	Margin: 0
Probe: AC3_3M (30-1000M)	Polarity: Vertical
EUT: Barcode Scanner	Power: By Battery
Note: Mode 1 : Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.127	21.330	1.890	-18.670	40.000	19.440	QP
2	*	88.079	27.852	11.181	-15.648	43.500	16.671	QP
3		195.506	20.417	-1.888	-23.083	43.500	22.305	QP
4		288.626	23.469	-1.357	-22.531	46.000	24.826	QP
5		458.134	28.327	2.175	-17.673	46.000	26.152	QP
6		709.727	28.738	-1.517	-17.262	46.000	30.254	QP

Note:

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

The End