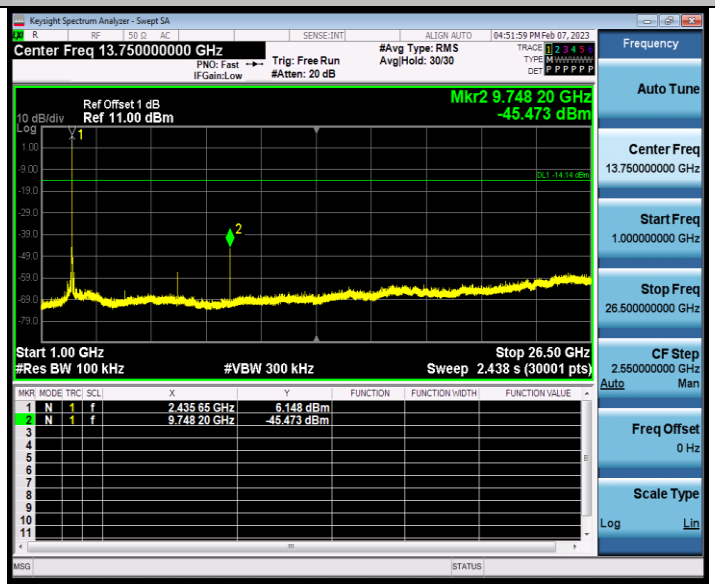
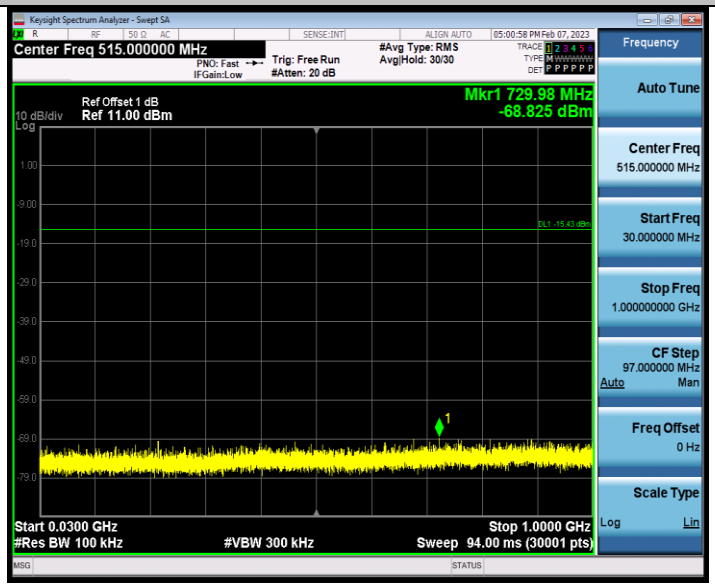
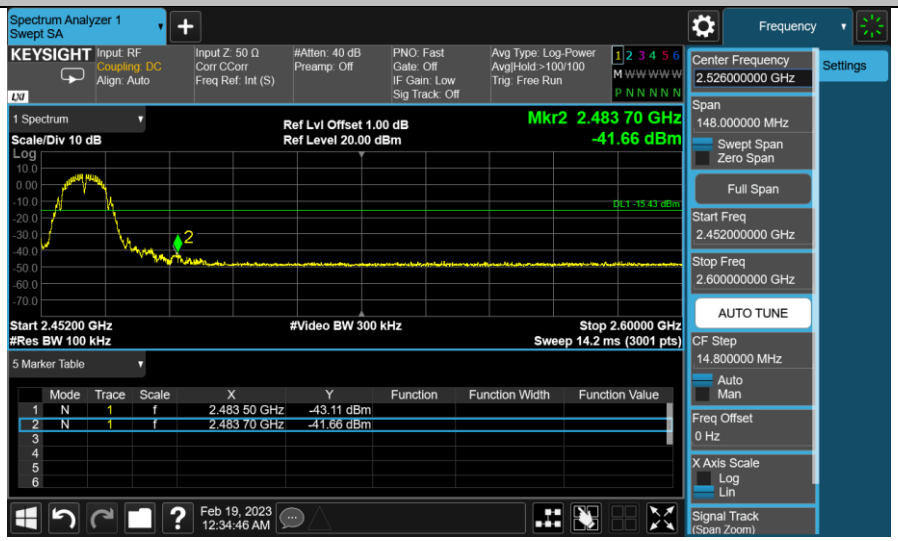
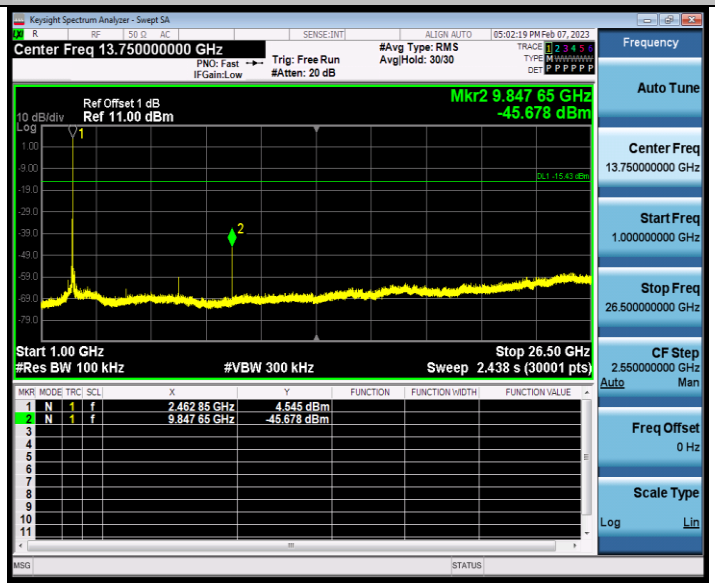
Mode1_2437_1000~26500

Mode1_2462_0~Reference

Mode1_2462_30~1000


Mode1_2462_2452~2600

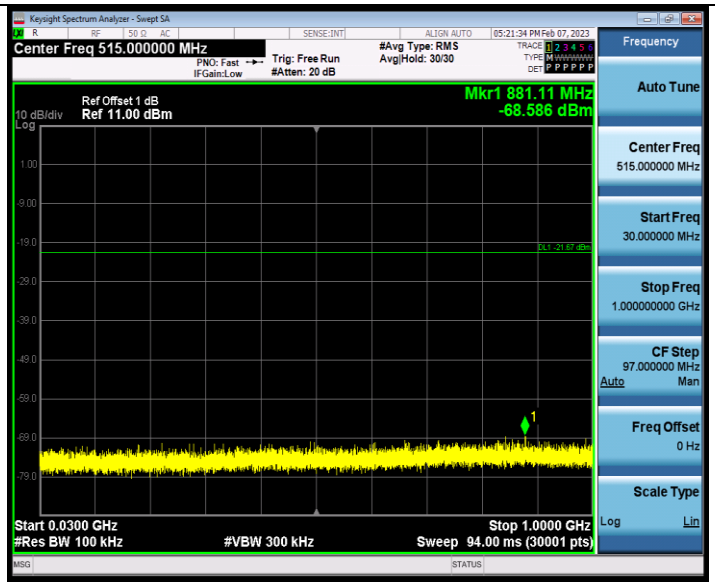


Mode1_2462_1000~26500

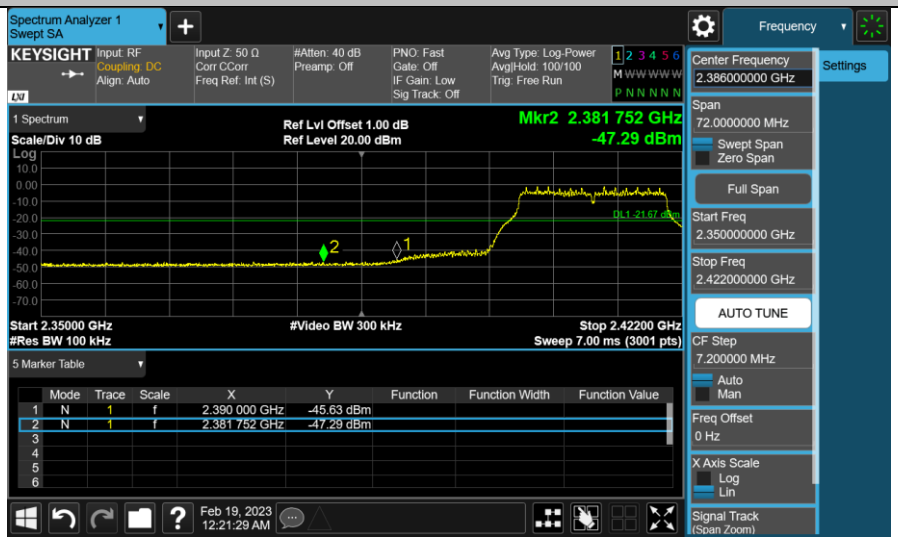


Mode2_2412_0~Reference

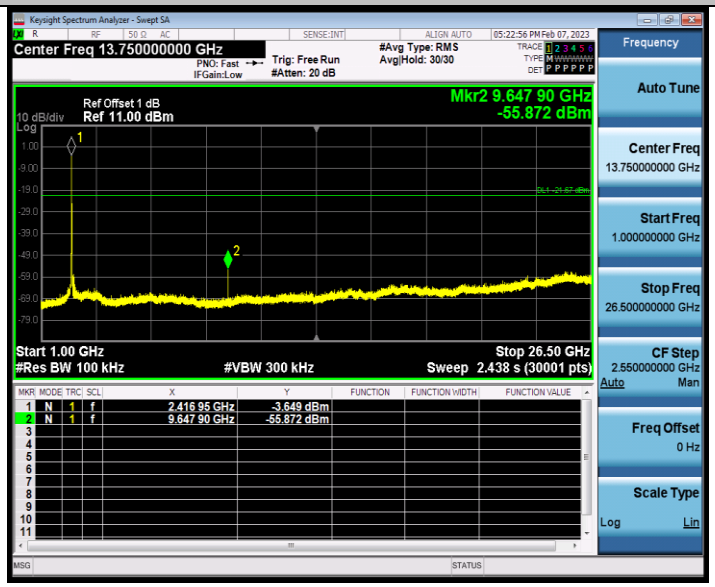
Mode2_2412_30~1000



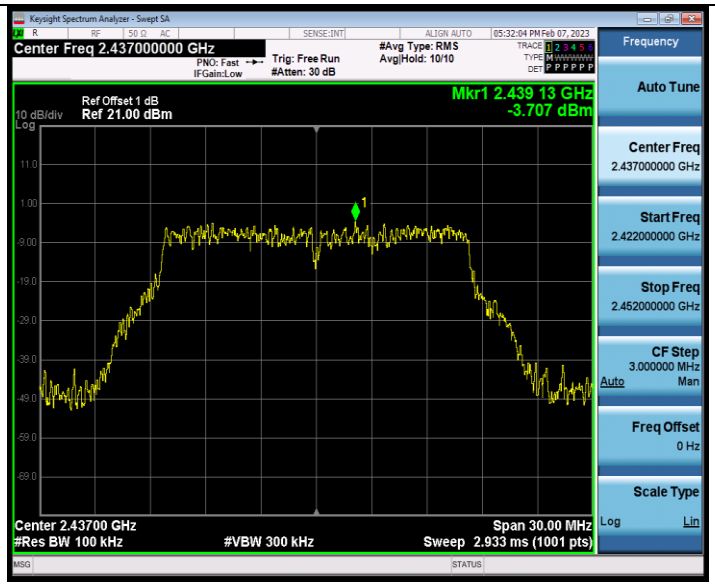
Mode2_2412_2350~2422



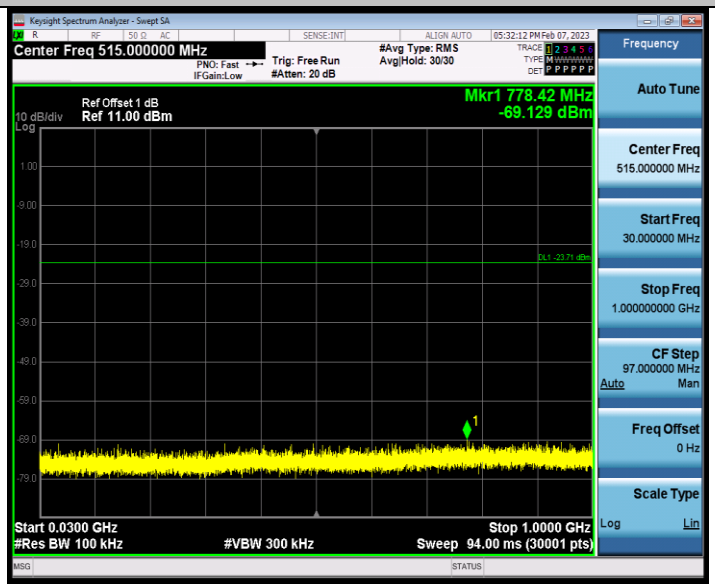
Mode2_2412_1000~26500



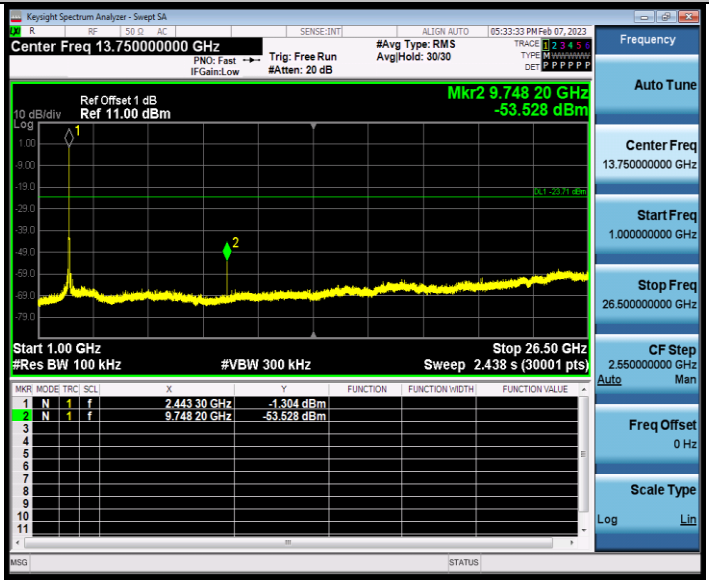
Mode2_2437_0~Reference



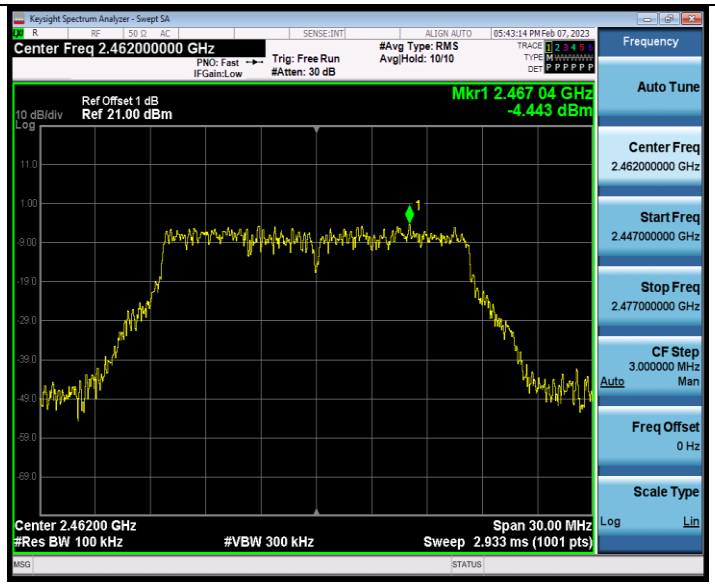
Mode2_2437_30~1000



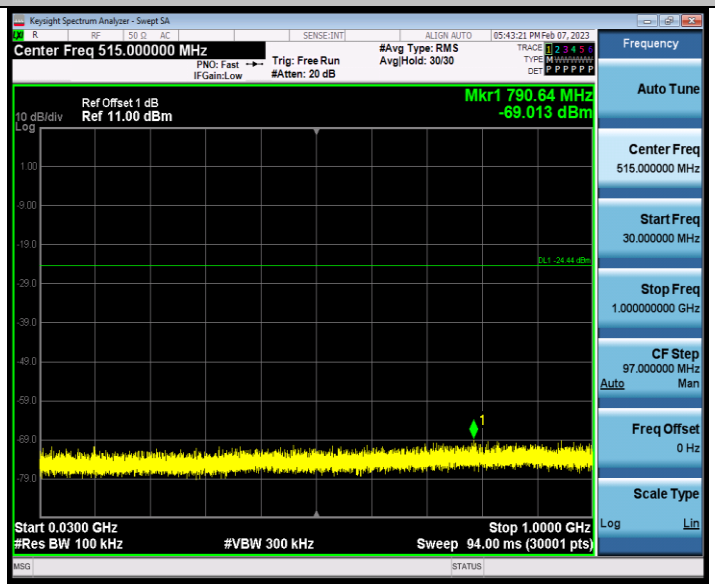
Mode2_2437_1000~26500



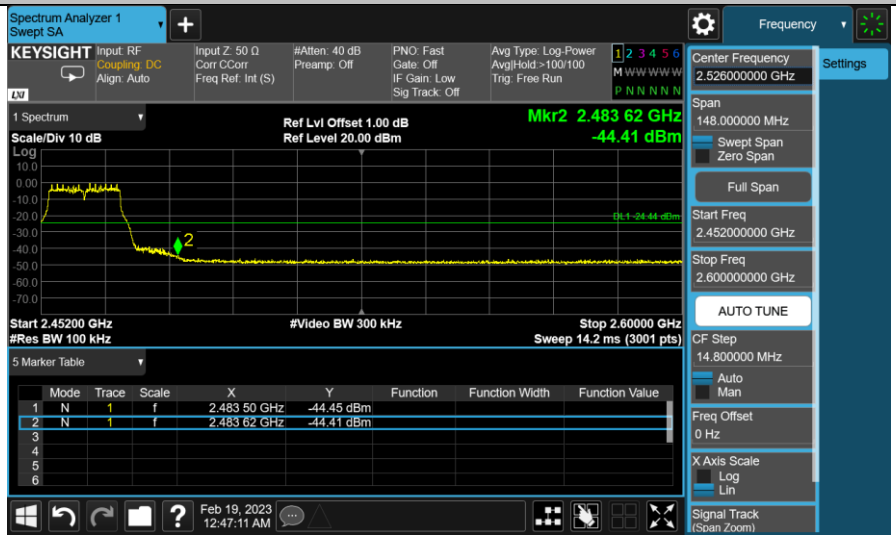
Mode2_2462_0~Reference



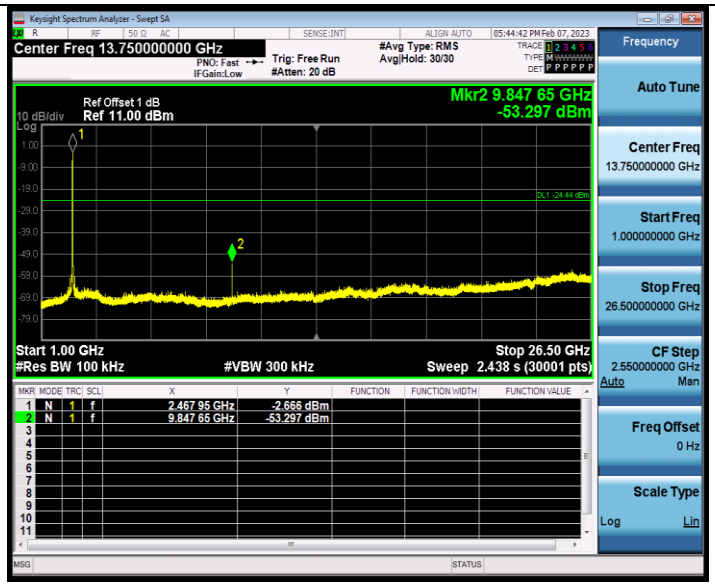
Mode2_2462_30~1000



Mode2_2462_2452~2600

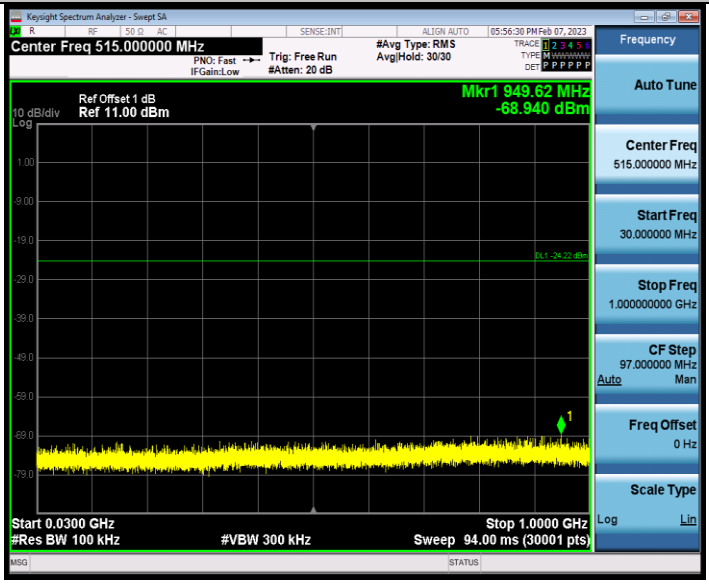


Mode2_2462_1000~26500

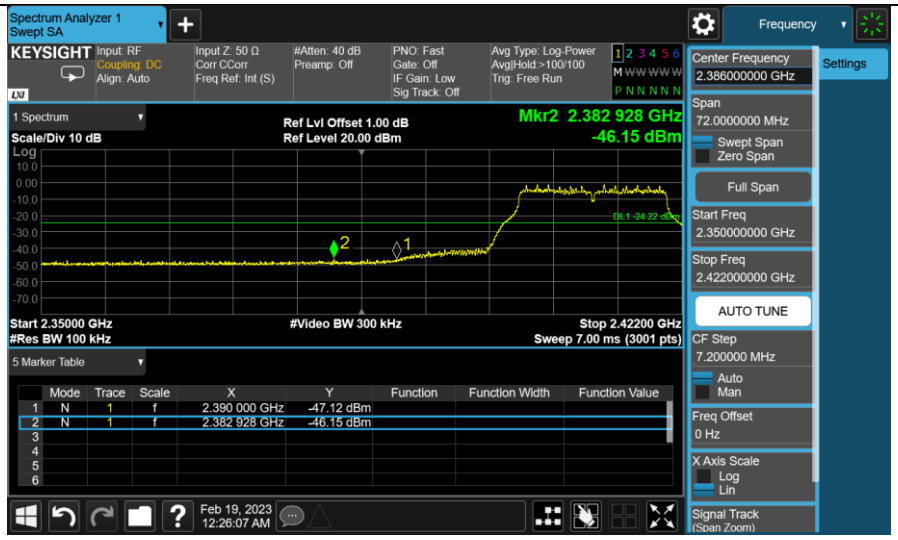


Mode3_2412_0~Reference

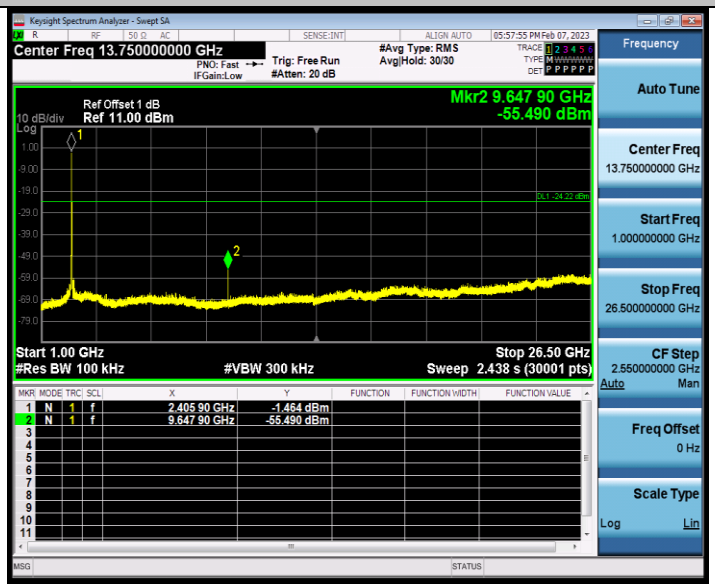
Mode3_2412_30~1000



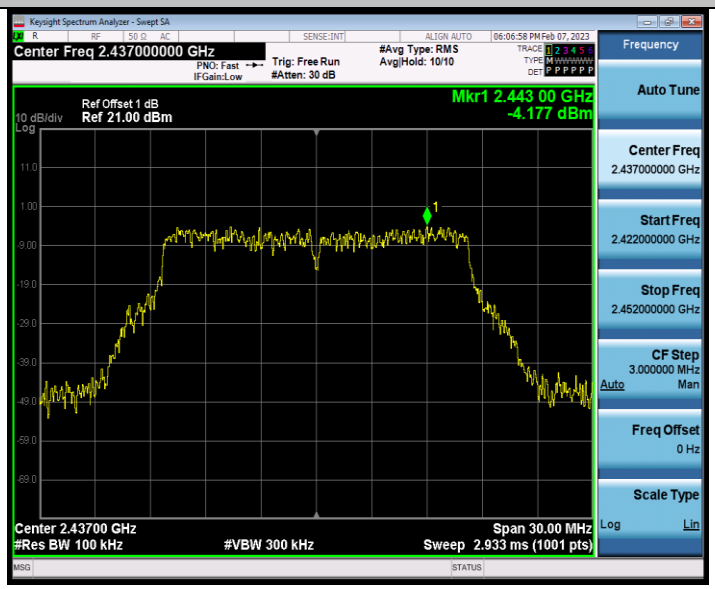
Mode3_2412_2350~2422



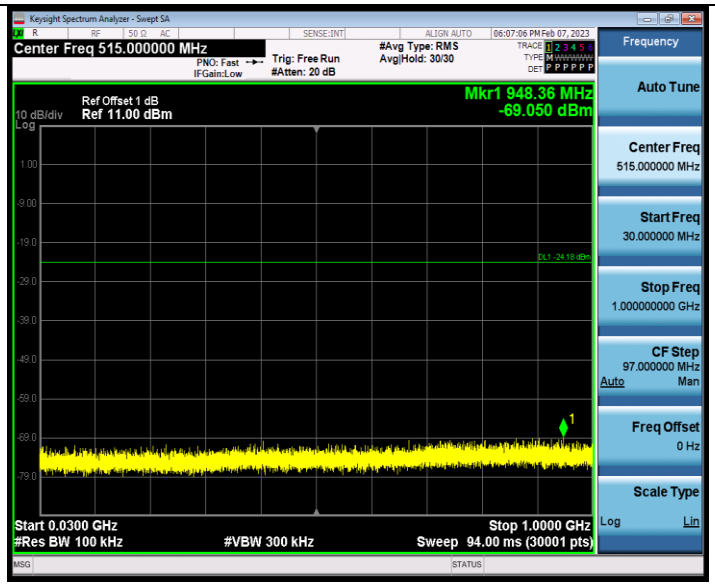
Mode3_2412_1000~26500



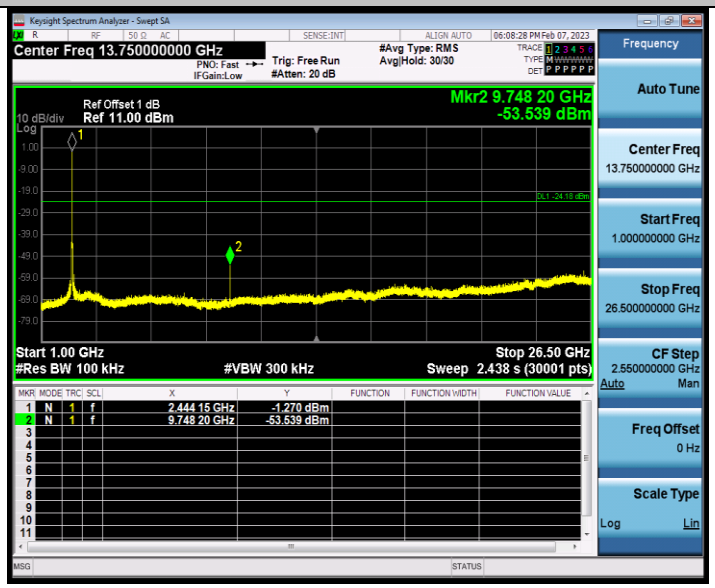
Mode3_2437_0~Reference



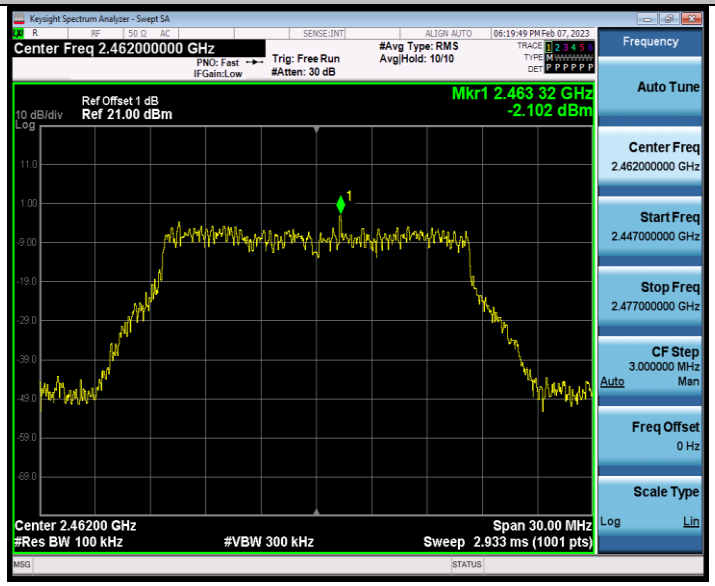
Mode3_2437_30~1000



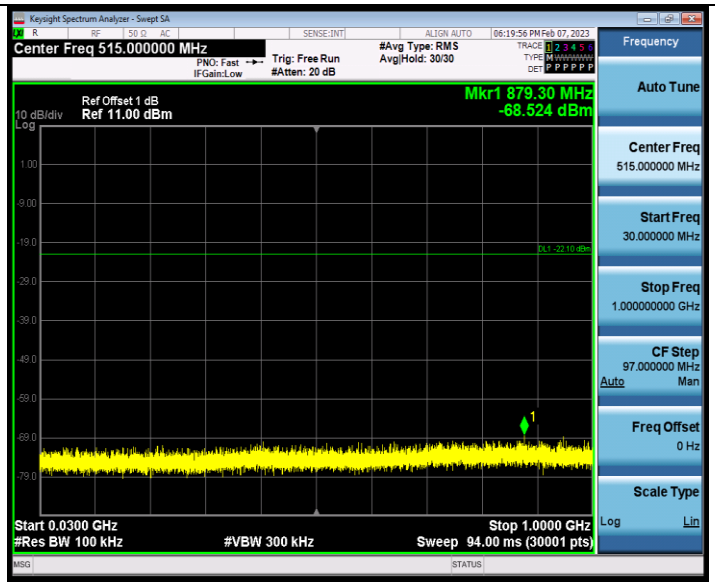
Mode3_2437_1000~26500



Mode3_2462_0~Reference

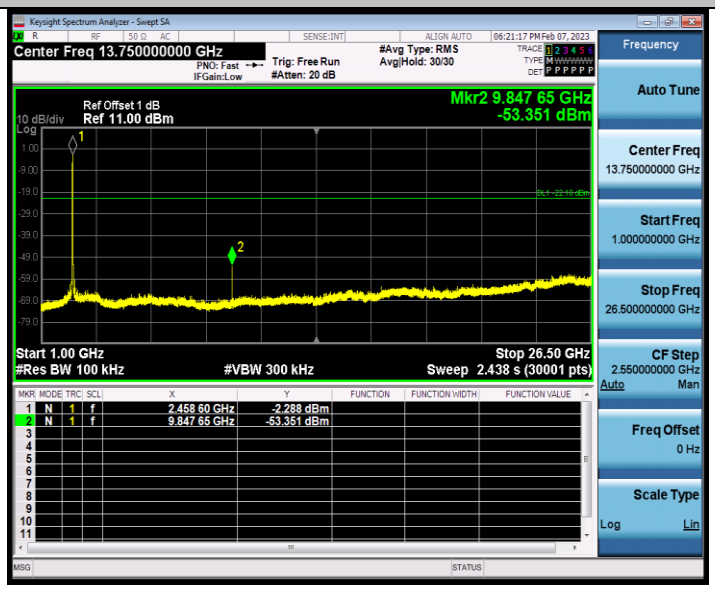


Mode3_2462_30~1000



Mode3_2462_2452~2600

Mode3_2462_1000~26500

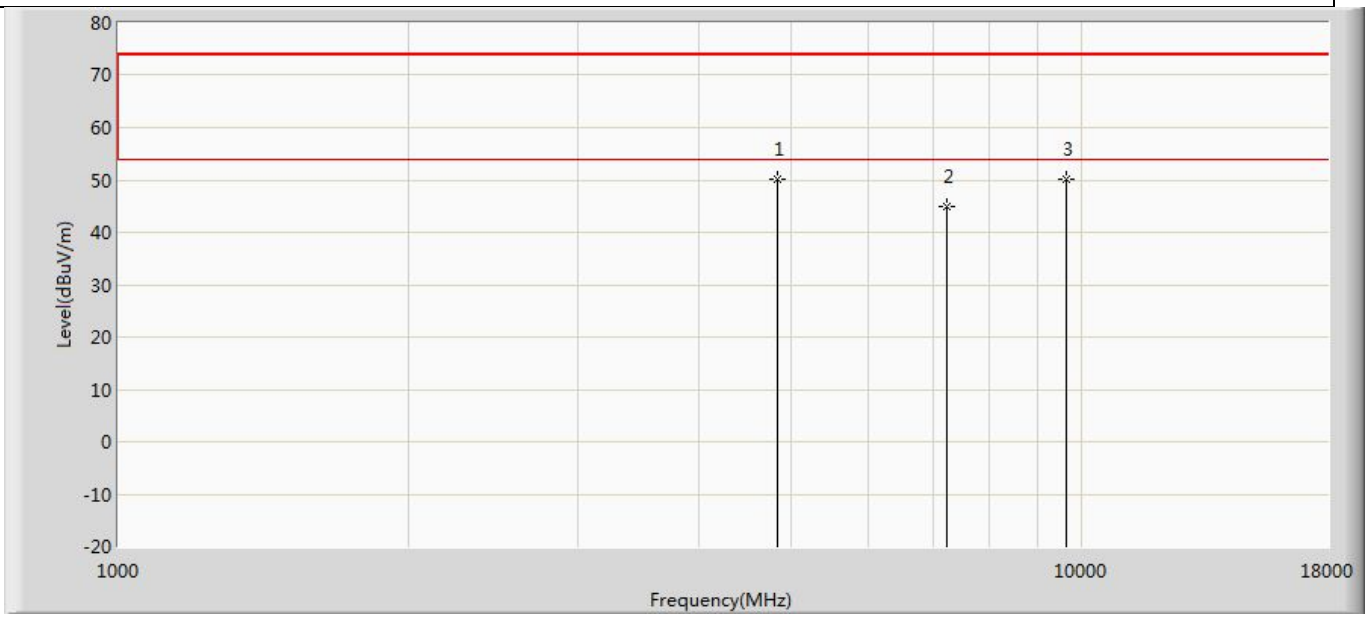


Appendix G: Duty Cycle
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
Mode1	Ant1	2412	8.60	8.70	98.85	0.05
		2437	8.61	8.71	98.85	0.05
		2462	8.61	8.71	98.85	0.05
Mode2	Ant1	2412	1.43	1.54	92.86	0.32
		2437	1.42	1.53	92.81	0.32
		2462	1.43	1.53	93.46	0.29
Mode3	Ant1	2412	1.43	1.54	92.86	0.32
		2437	1.42	1.53	92.81	0.32
		2462	1.43	1.54	92.86	0.32

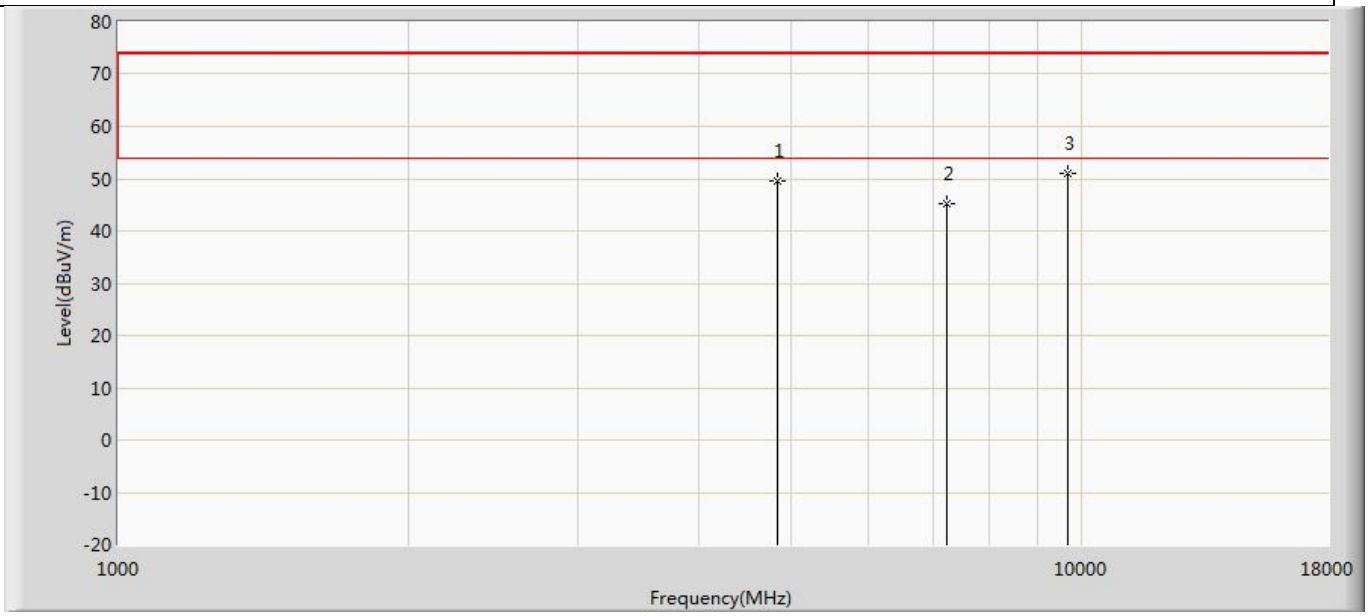
Appendix H: Emissions in Restricted Bands
Test Result

Profile: 2320054R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 1：Transmit at 2412MHz by 802.11b	



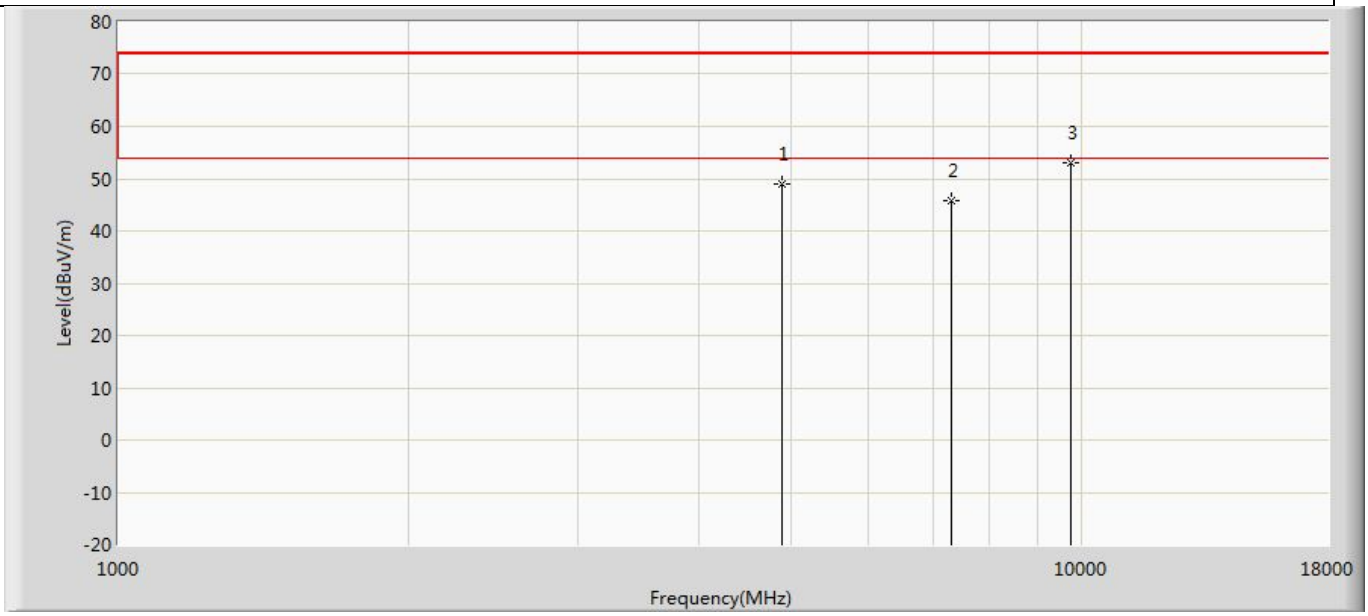
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	50.154	64.799	-23.846	74.000	-14.646	PK
2		7236.000	45.071	54.829	-28.929	74.000	-9.758	PK
3		9648.000	50.055	55.468	-23.945	74.000	-5.413	PK

Profile: 2320054R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 1：Transmit at 2412MHz by 802.11b	



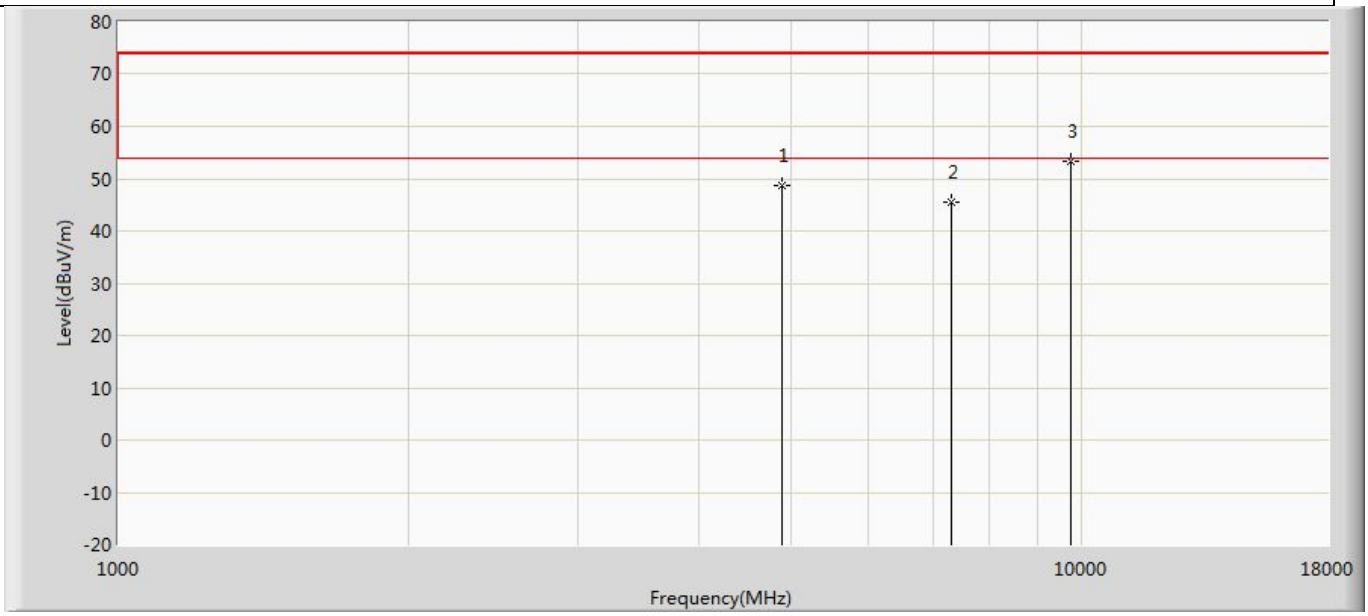
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4825.000	49.465	64.110	-24.535	74.000	-14.646	PK
2		7236.000	45.165	54.923	-28.835	74.000	-9.758	PK
3	*	9653.000	51.078	56.437	-22.922	74.000	-5.359	PK

Profile: 2320054R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 1：Transmit at 2437MHz by 802.11b	



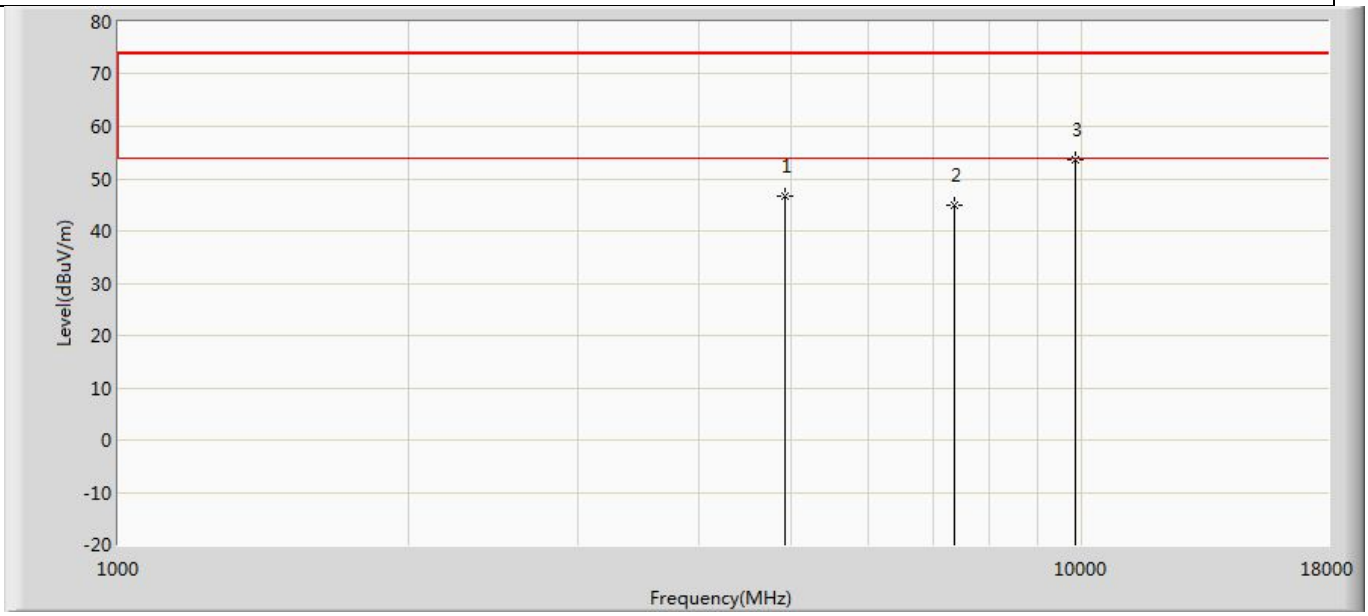
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	49.043	63.340	-24.957	74.000	-14.297	PK
2		7311.000	45.837	55.585	-28.163	74.000	-9.747	PK
3	*	9755.000	53.062	58.526	-20.938	74.000	-5.465	PK

Profile: 2320054R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 1：Transmit at 2437MHz by 802.11b	



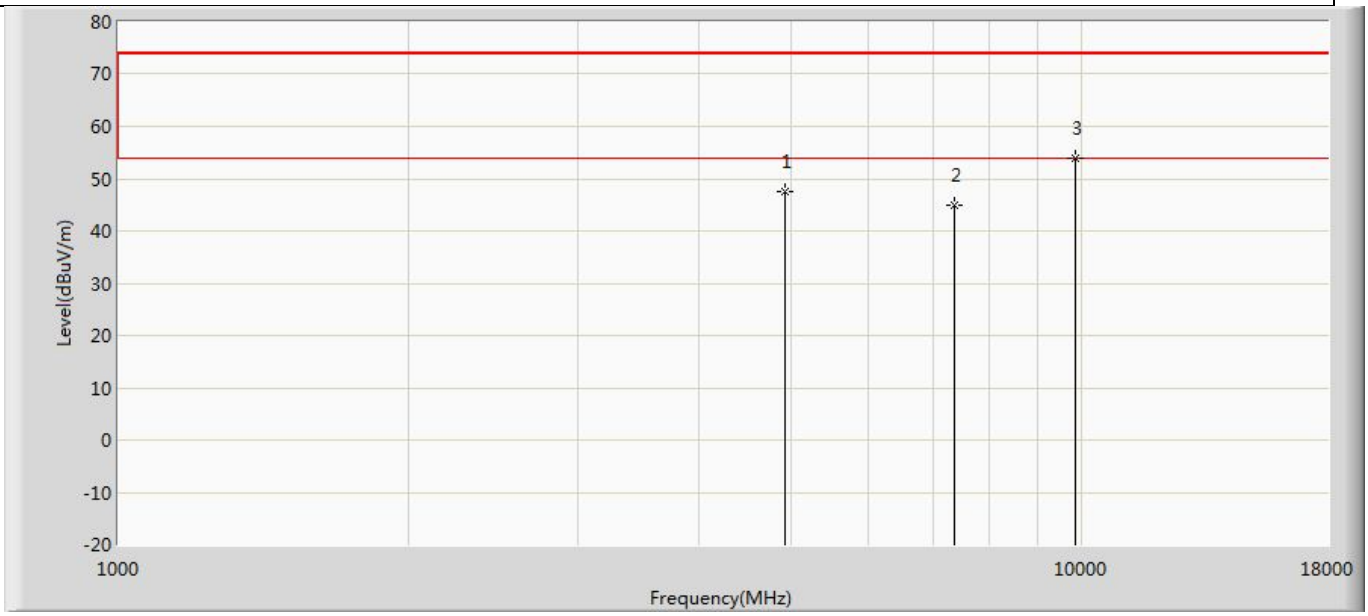
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	48.815	63.112	-25.185	74.000	-14.297	PK
2		7311.000	45.370	55.118	-28.630	74.000	-9.747	PK
3	*	9755.000	53.421	58.885	-20.579	74.000	-5.465	PK

Profile: 2320054R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 1：Transmit at 2462MHz by 802.11b	



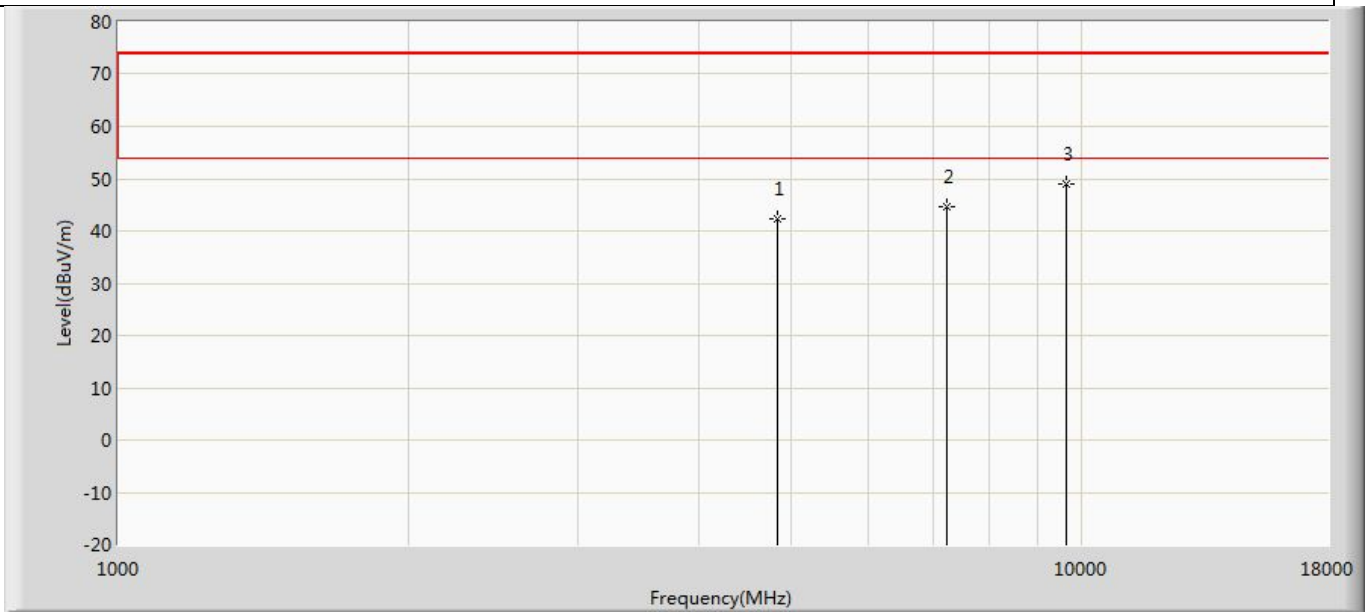
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	46.628	61.141	-27.372	74.000	-14.514	PK
2		7386.000	44.996	54.803	-29.004	74.000	-9.808	PK
3	*	9840.000	53.762	59.011	-20.238	74.000	-5.249	PK

Profile: 2320054R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 1：Transmit at 2462MHz by 802.11b	



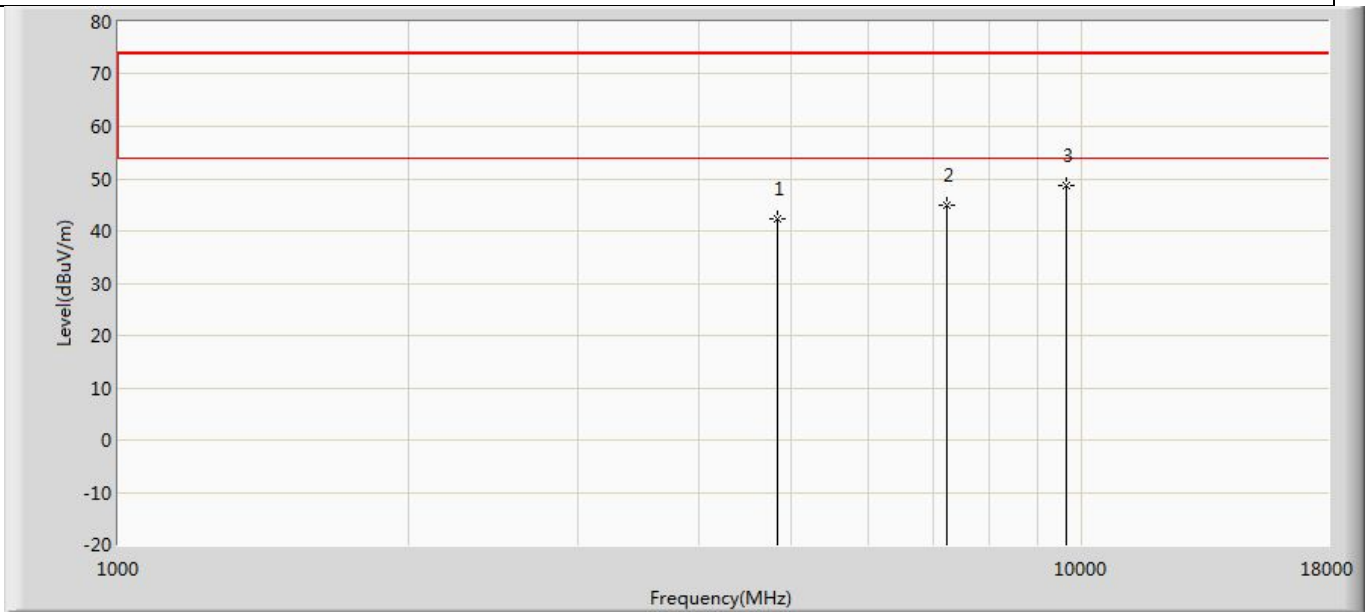
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	47.443	61.956	-26.557	74.000	-14.514	PK
2		7386.000	44.904	54.711	-29.096	74.000	-9.808	PK
3	*	9840.000	53.831	59.080	-20.169	74.000	-5.249	PK

Profile: 2320054R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 2：Transmit at 2412MHz by 802.11g	



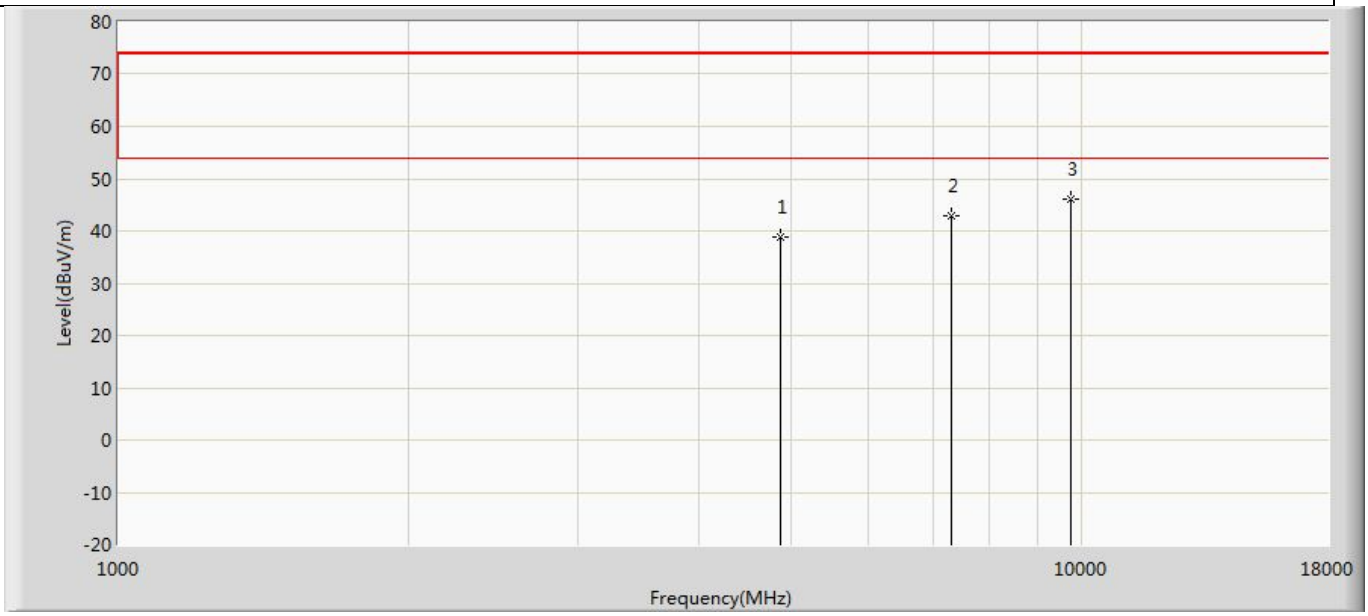
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.303	56.948	-31.697	74.000	-14.646	PK
2		7236.000	44.532	54.290	-29.468	74.000	-9.758	PK
3	*	9648.000	48.842	54.255	-25.158	74.000	-5.413	PK

Profile: 2320054R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 2：Transmit at 2412MHz by 802.11g	



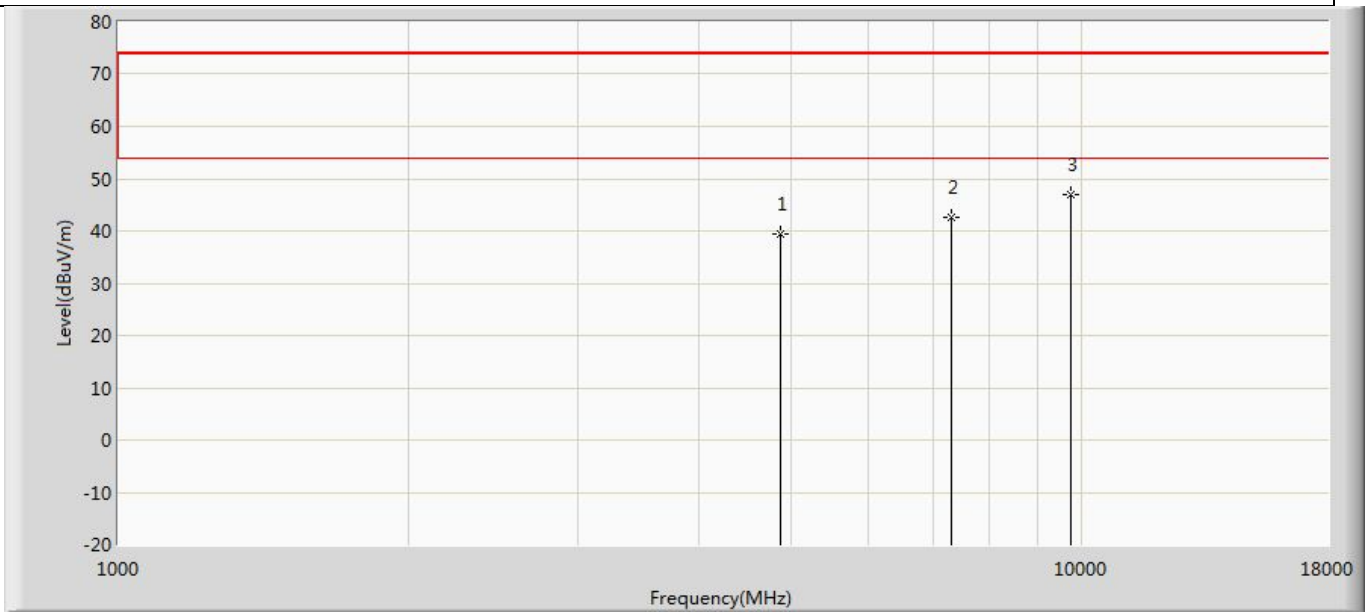
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.389	57.034	-31.611	74.000	-14.646	PK
2		7236.000	44.845	54.603	-29.155	74.000	-9.758	PK
3	*	9648.000	48.556	53.969	-25.444	74.000	-5.413	PK

Profile: 2320054R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 2：Transmit at 2437MHz by 802.11g	



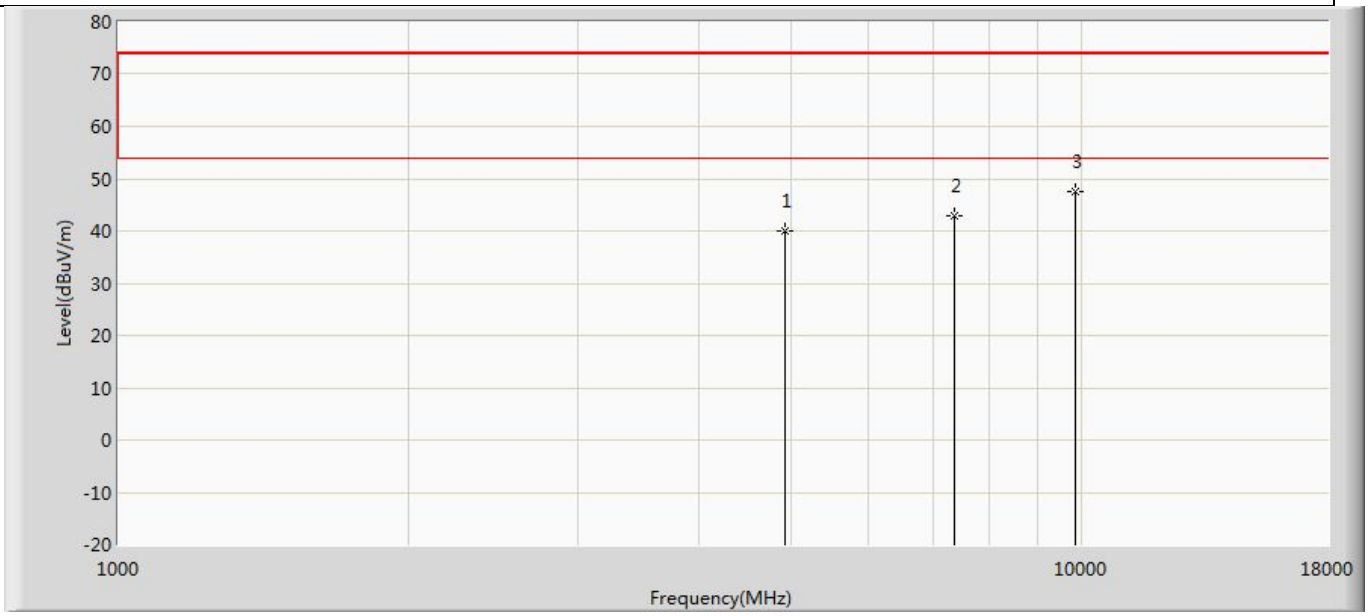
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.828	53.164	-35.172	74.000	-14.335	PK
2		7311.000	42.797	52.545	-31.203	74.000	-9.747	PK
3	*	9748.000	45.943	51.434	-28.057	74.000	-5.491	PK

Profile: 2320054R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 2：Transmit at 2437MHz by 802.11g	



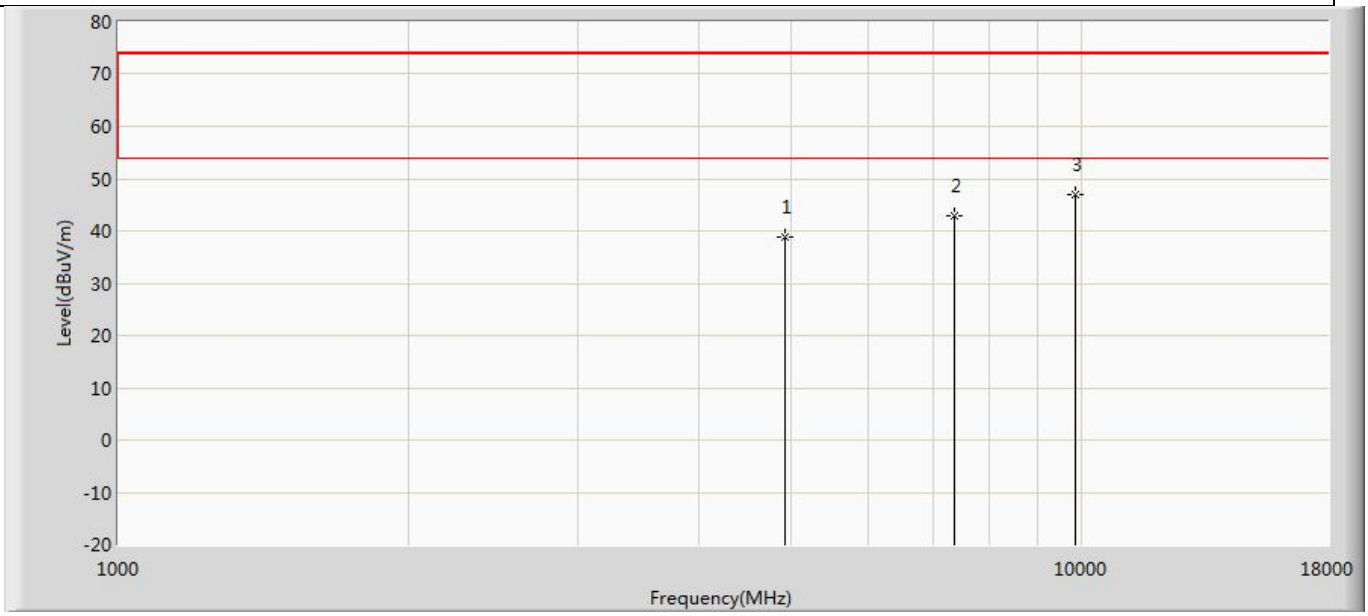
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.393	53.729	-34.607	74.000	-14.335	PK
2		7311.000	42.720	52.468	-31.280	74.000	-9.747	PK
3	*	9748.000	46.921	52.412	-27.079	74.000	-5.491	PK

Profile: 2320054R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 2：Transmit at 2462MHz by 802.11g	



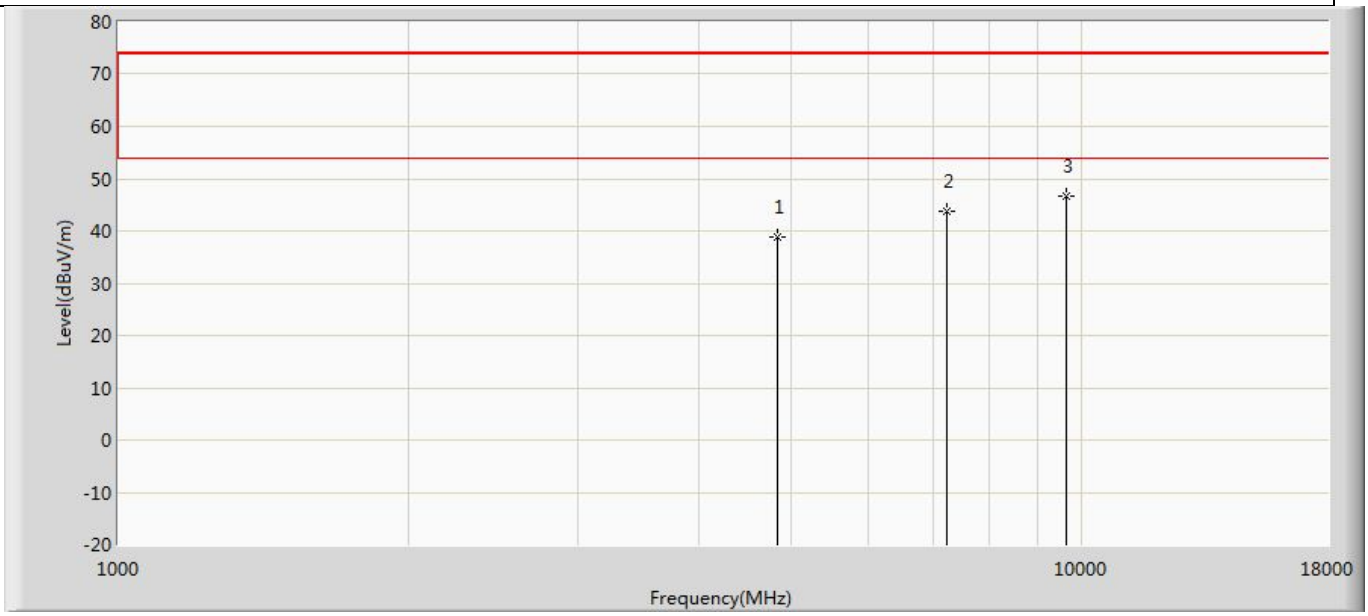
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.871	54.344	-34.129	74.000	-14.473	PK
2		7386.000	42.912	52.719	-31.088	74.000	-9.808	PK
3	*	9848.000	47.624	52.771	-26.376	74.000	-5.147	PK

Profile: 2320054R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 2：Transmit at 2462MHz by 802.11g	



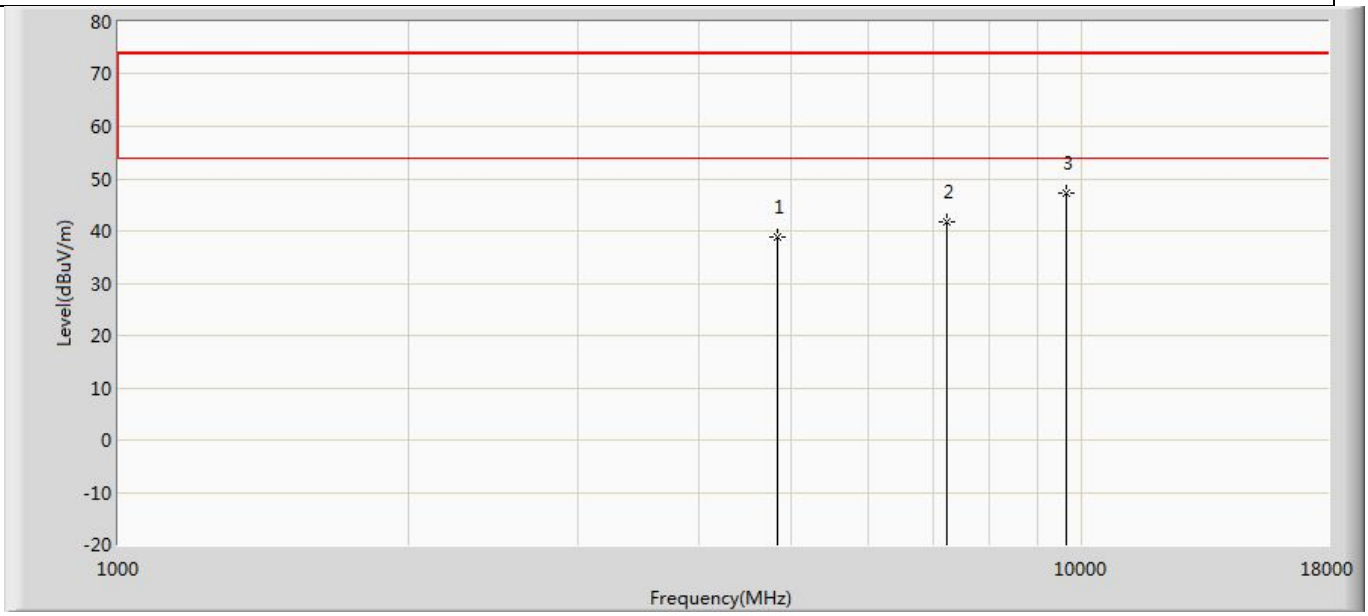
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	38.847	53.320	-35.153	74.000	-14.473	PK
2		7386.000	42.914	52.721	-31.086	74.000	-9.808	PK
3	*	9848.000	47.078	52.225	-26.922	74.000	-5.147	PK

Profile: 2320054R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 3：Transmit at 2412MHz by 802.11n(20MHz)	



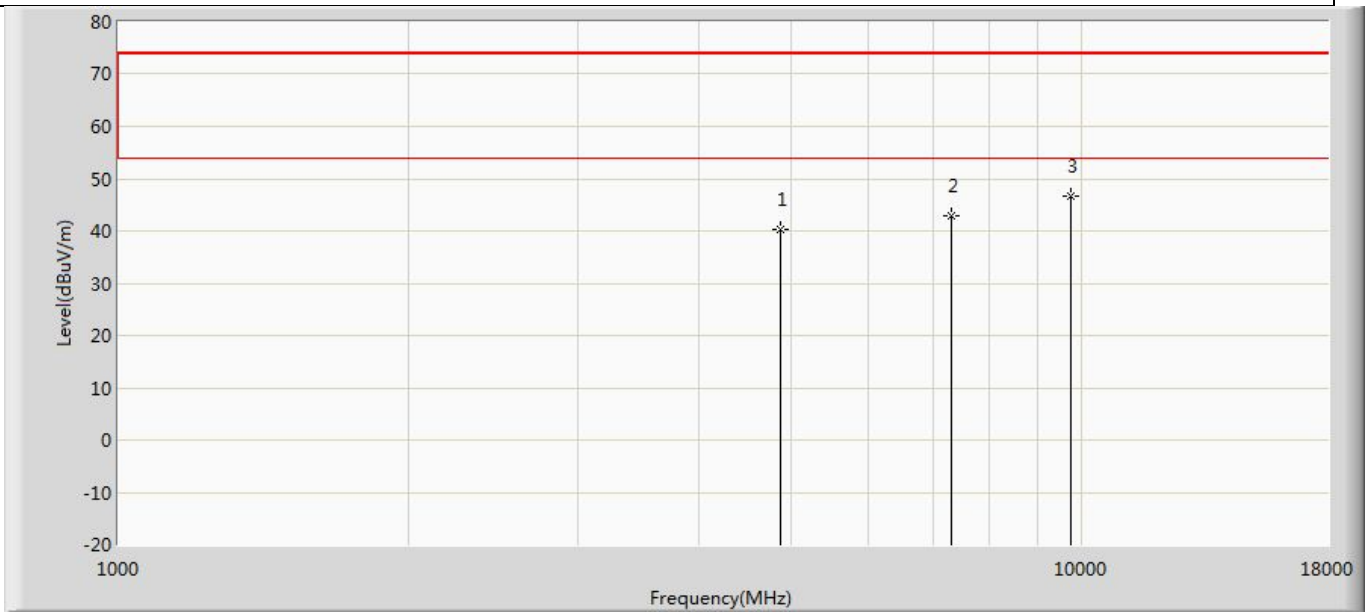
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	38.913	53.558	-35.087	74.000	-14.646	PK
2		7236.000	43.818	53.576	-30.182	74.000	-9.758	PK
3	*	9648.000	46.592	52.005	-27.408	74.000	-5.413	PK

Profile: 2320054R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 3：Transmit at 2412MHz by 802.11n(20MHz)	



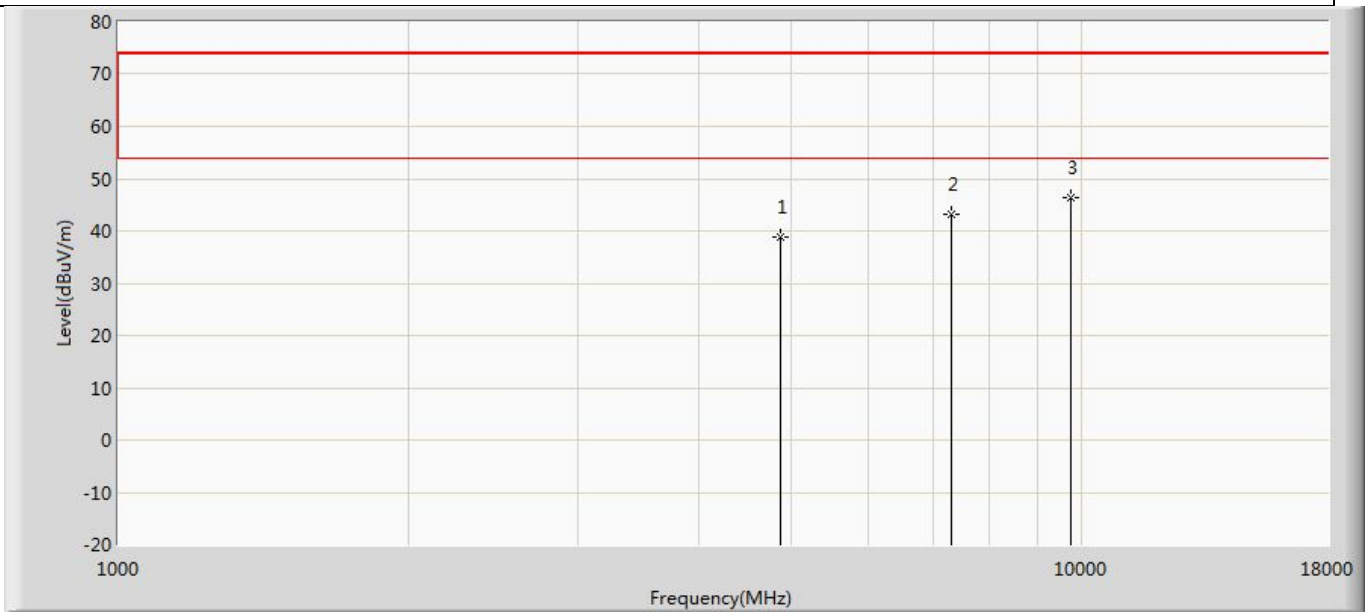
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	38.932	53.577	-35.068	74.000	-14.646	PK
2		7236.000	41.819	51.577	-32.181	74.000	-9.758	PK
3	*	9648.000	47.203	52.616	-26.797	74.000	-5.413	PK

Profile: 2320054R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 3：Transmit at 2437MHz by 802.11n(20MHz)	



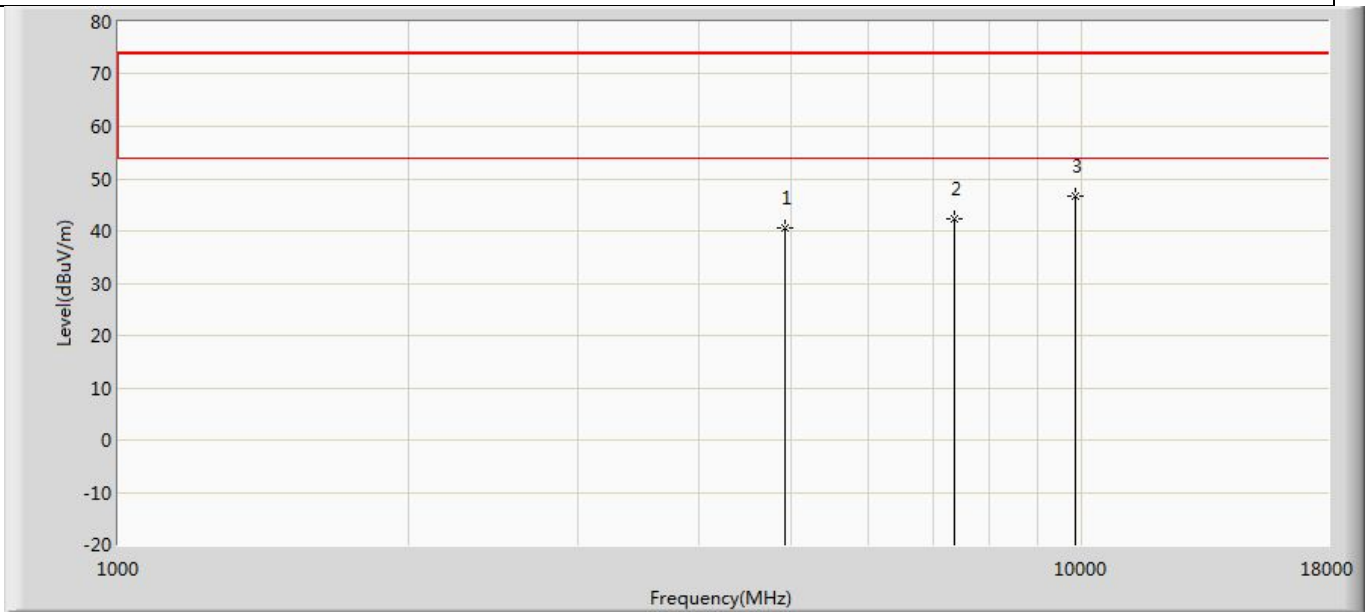
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.317	54.653	-33.683	74.000	-14.335	PK
2		7311.000	42.939	52.687	-31.061	74.000	-9.747	PK
3	*	9748.000	46.542	52.033	-27.458	74.000	-5.491	PK

Profile: 2320054R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 3：Transmit at 2437MHz by 802.11n(20MHz)	



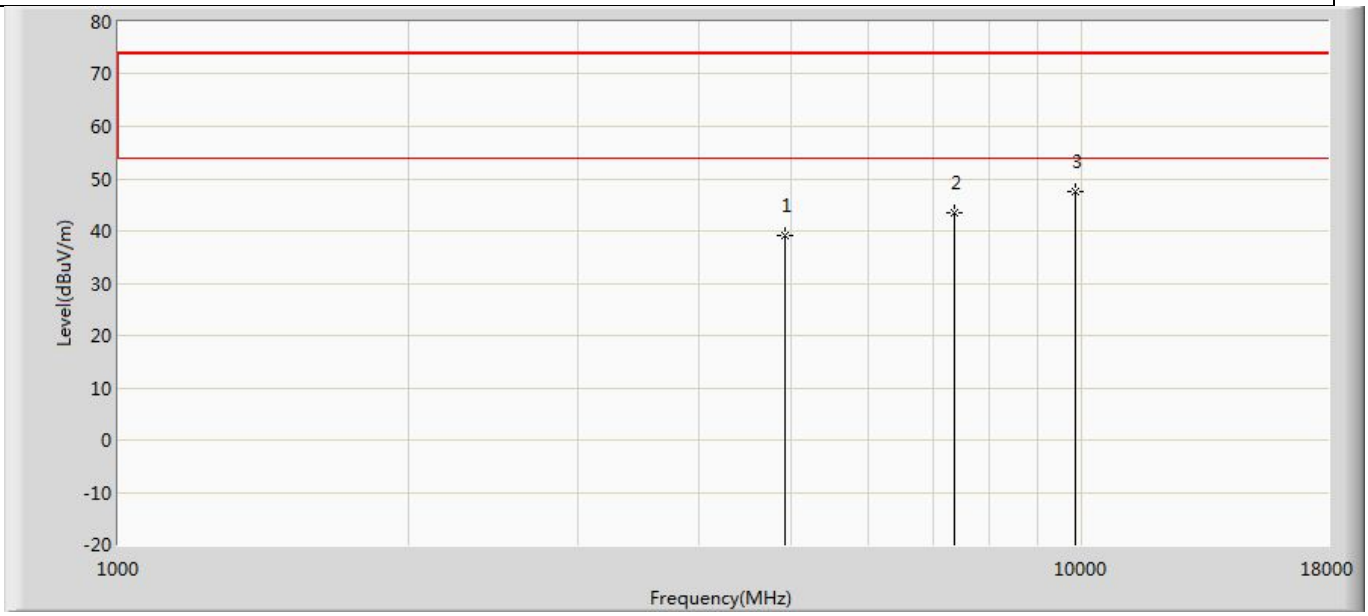
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.752	53.088	-35.248	74.000	-14.335	PK
2		7311.000	43.169	52.917	-30.831	74.000	-9.747	PK
3	*	9748.000	46.371	51.862	-27.629	74.000	-5.491	PK

Profile: 2320054R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 3：Transmit at 2462MHz by 802.11n(20MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.634	55.107	-33.366	74.000	-14.473	PK
2		7386.000	42.337	52.144	-31.663	74.000	-9.808	PK
3	*	9848.000	46.768	51.915	-27.232	74.000	-5.147	PK

Profile: 2320054R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 3：Transmit at 2462MHz by 802.11n(20MHz)	

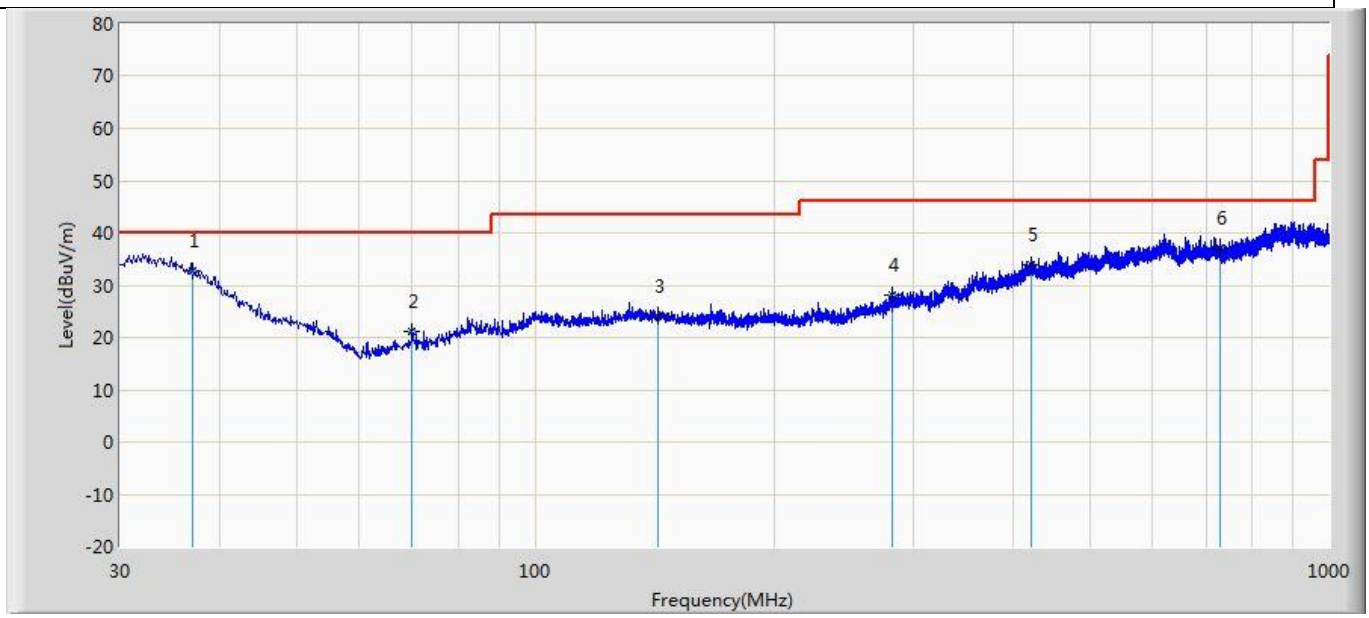


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.154	53.627	-34.846	74.000	-14.473	PK
2		7386.000	43.478	53.285	-30.522	74.000	-9.808	PK
3	*	9848.000	47.674	52.821	-26.326	74.000	-5.147	PK

Note:
1. " * ", means this data is the worst emission level.
2. Measured Level = Reading Level + Factor.
3. The test frequency range 9kHz~30MHz and above 18GHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. This limit applies for both peak and average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
5.The points in graph are the highest data in test frequency range.

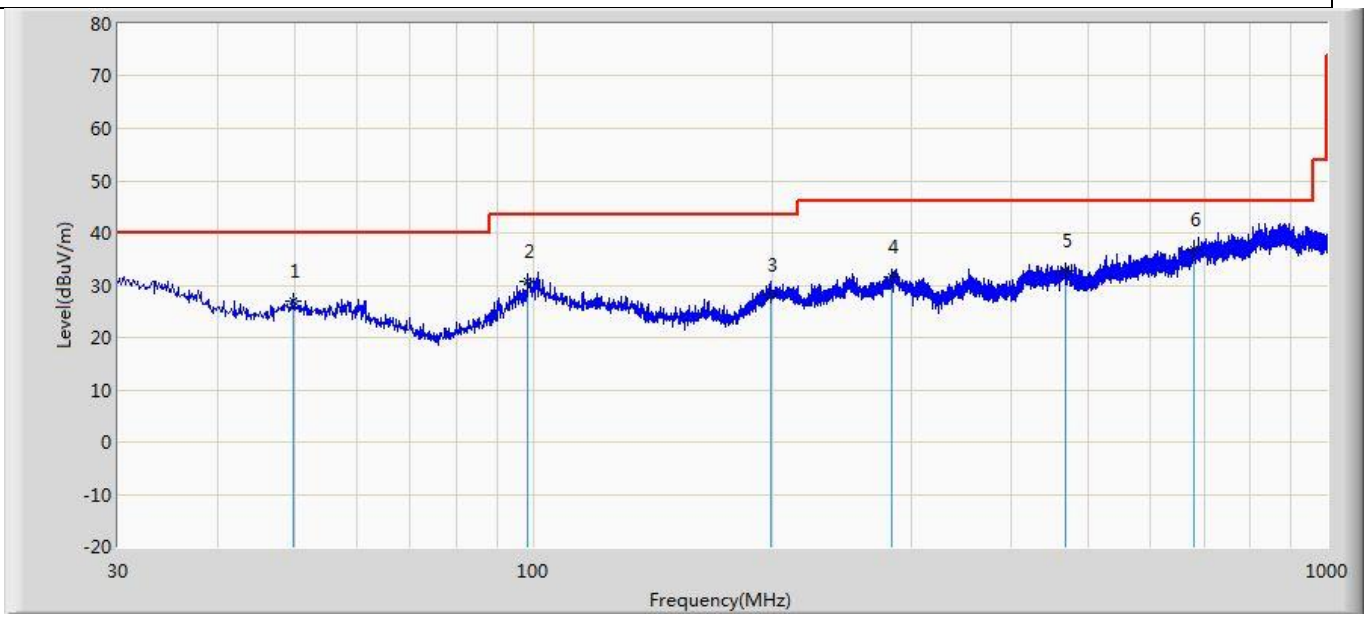
The worst case of Radiated Emission below 1GHz:

Profile: 2320054R	Page No.: 141
Engineer: Yu Liu	
Site: AC2	Time: 2023/02/14 - 07:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: SC2028	Power: Battery
Note: Mode 1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	36.991	32.766	7.635	-7.234	40.000	25.131	QP
2		69.891	21.272	9.781	-18.728	40.000	11.491	QP
3		143.126	24.174	7.004	-19.326	43.500	17.170	QP
4		282.200	28.037	7.903	-17.963	46.000	20.134	QP
5		422.365	33.824	6.604	-12.176	46.000	27.219	QP
6		730.097	36.977	8.134	-9.023	46.000	28.843	QP

Profile: 2320054R	Page No.: 142
Engineer: Yu Liu	
Site: AC2	Time: 2023/02/14 - 07:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: SC2028	Power: Battery
Note: Mode 1: Transmit at 2412MHz by 802.11b	

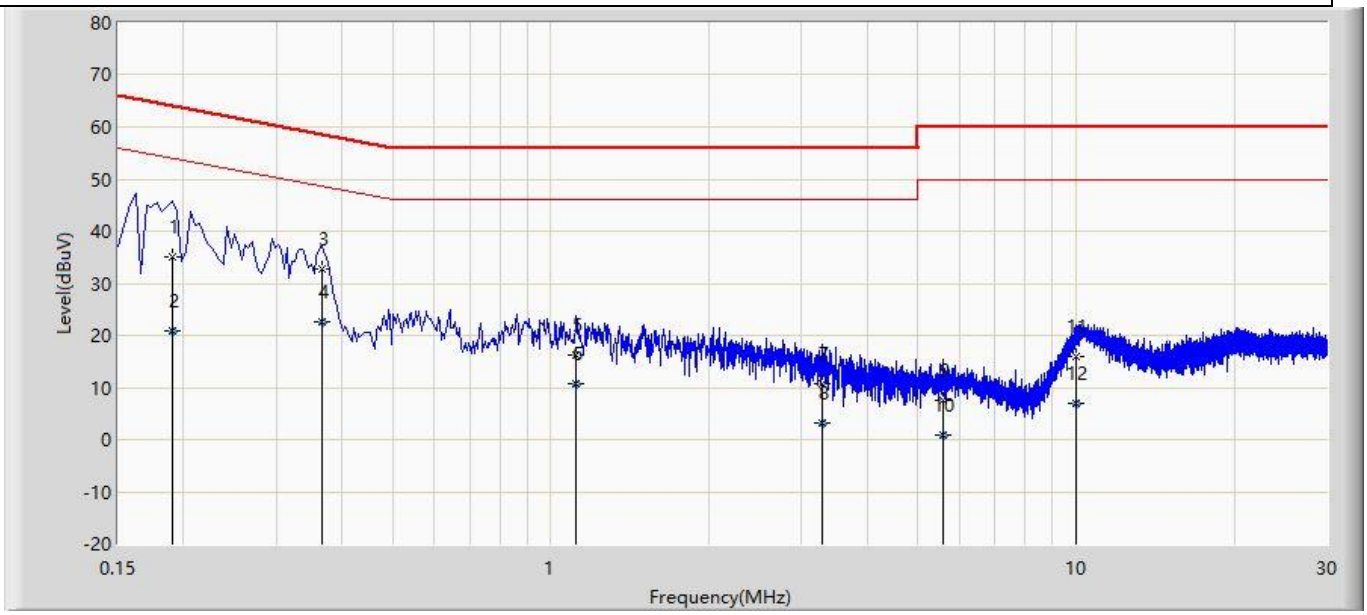


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		49.885	26.841	7.405	-13.159	40.000	19.436	QP
2		98.385	30.821	9.595	-12.679	43.500	21.226	QP
3		199.265	28.073	4.774	-15.427	43.500	23.299	QP
4		283.411	31.474	6.352	-14.526	46.000	25.122	QP
5		468.076	32.818	6.026	-13.182	46.000	26.791	QP
6	*	681.112	36.932	7.043	-9.068	46.000	29.889	QP

Note:
1. " * ", means this data is the worst emission level.
2. Measured Level = Reading Level + Factor.
3. The test frequency range 9kHz~30MHz and above 18GHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. This limit applies for both peak and average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

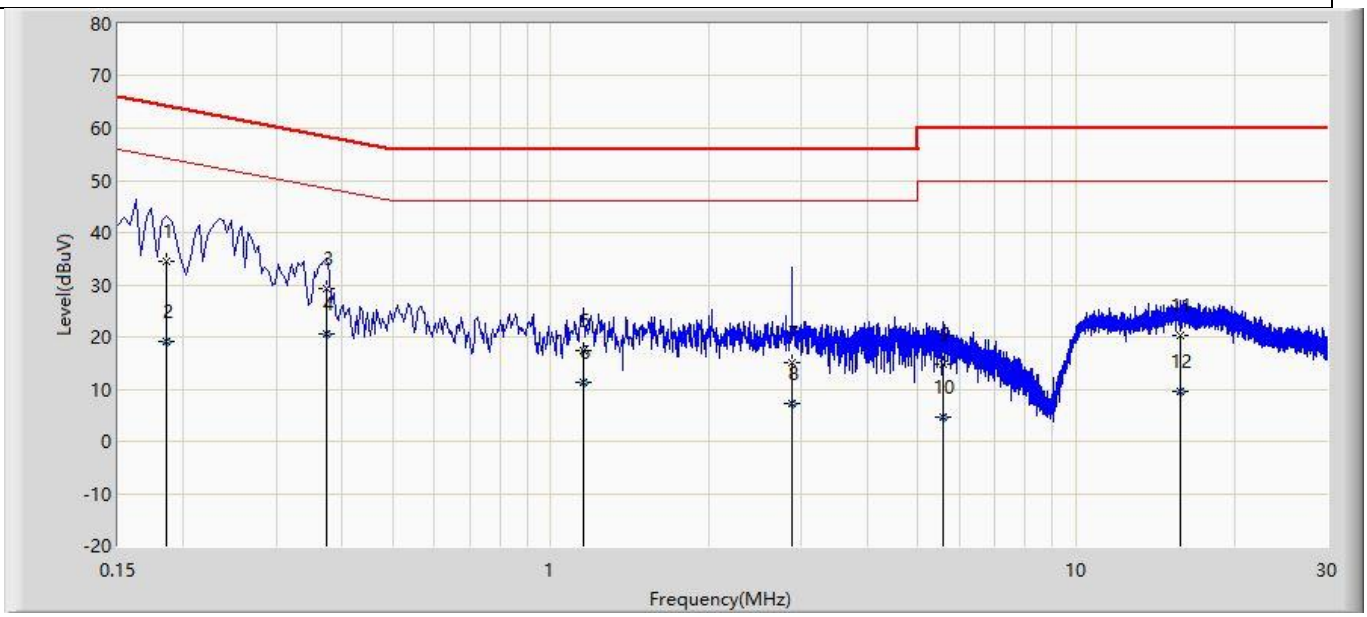
Appendix I: AC Power Line Conducted Emission Test Result

Profile: 2320054R	Page No.: 133
Engineer: Yu Liu	
Site: TR1	Time: 2023/02/14 - 07:14
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: SC2028	Power: AC 120V/60Hz
Note: Mode1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.190	35.071	25.494	-28.966	64.037	9.577	QP
2		0.190	20.918	11.342	-33.118	54.037	9.577	AV
3	*	0.366	32.757	23.162	-25.834	58.591	9.595	QP
4		0.366	22.603	13.008	-25.988	48.591	9.595	AV
5		1.118	16.099	6.450	-39.901	56.000	9.649	QP
6		1.118	10.724	1.075	-35.276	46.000	9.649	AV
7		3.274	10.649	0.913	-45.351	56.000	9.736	QP
8		3.274	3.308	-6.428	-42.692	46.000	9.736	AV
9		5.578	7.404	-2.428	-52.596	60.000	9.832	QP
10		5.578	0.955	-8.877	-49.045	50.000	9.832	AV
11		10.018	15.972	5.959	-44.028	60.000	10.014	QP
12		10.018	6.914	-3.100	-43.086	50.000	10.014	AV

Profile: 2320054R	Page No.: 134
Engineer: Yu Liu	
Site: TR1	Time: 2023/02/14 - 07:17
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: SC2028	Power: AC 120V/60Hz
Note: Mode1: Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.186	34.520	24.943	-29.693	64.213	9.576	QP
2		0.186	19.135	9.558	-35.078	54.213	9.576	AV
3		0.374	29.208	19.608	-29.203	58.412	9.600	QP
4	*	0.374	20.613	11.013	-27.799	48.412	9.600	AV
5		1.150	17.408	7.752	-38.592	56.000	9.655	QP
6		1.150	11.426	1.771	-34.574	46.000	9.655	AV
7		2.882	14.975	5.259	-41.025	56.000	9.716	QP
8		2.882	7.390	-2.326	-38.610	46.000	9.716	AV
9		5.566	14.680	4.852	-45.320	60.000	9.829	QP
10		5.566	4.564	-5.264	-45.436	50.000	9.829	AV
11		15.786	20.368	10.200	-39.632	60.000	10.168	QP
12		15.786	9.656	-0.512	-40.344	50.000	10.168	AV

Note:
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). Test Photograph.
3. We have evaluated all test modes, shown in report is the worst data.

The End