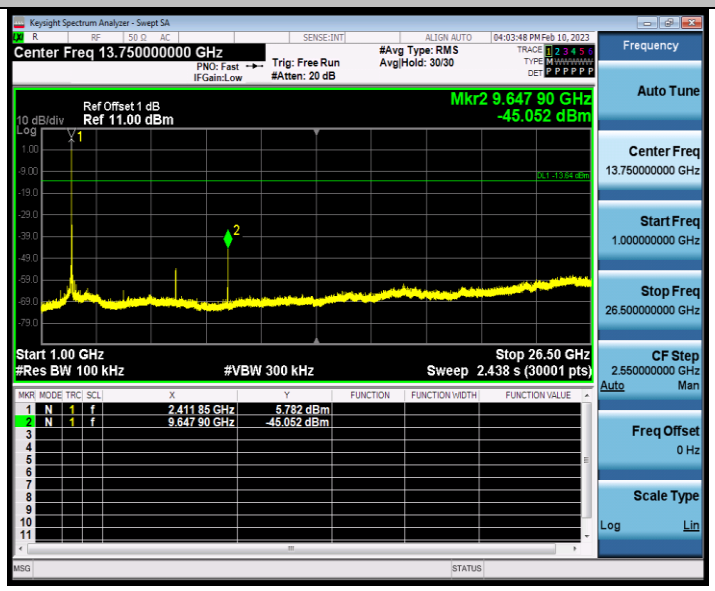
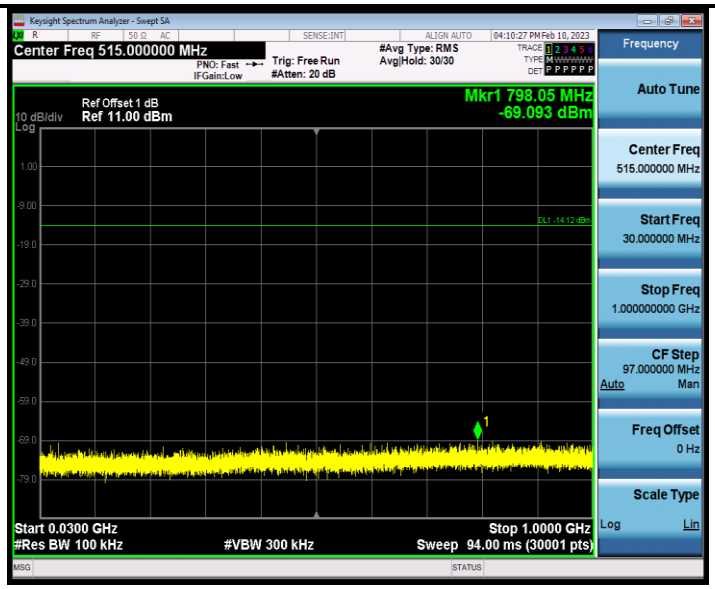
Mode1_2412_2350~2422

Mode1_2412_1000~26500

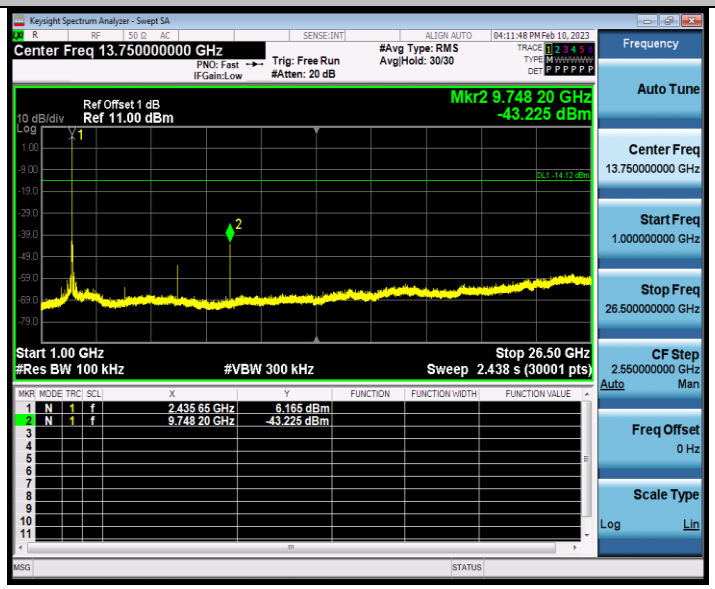


Mode1_2437_0~Reference

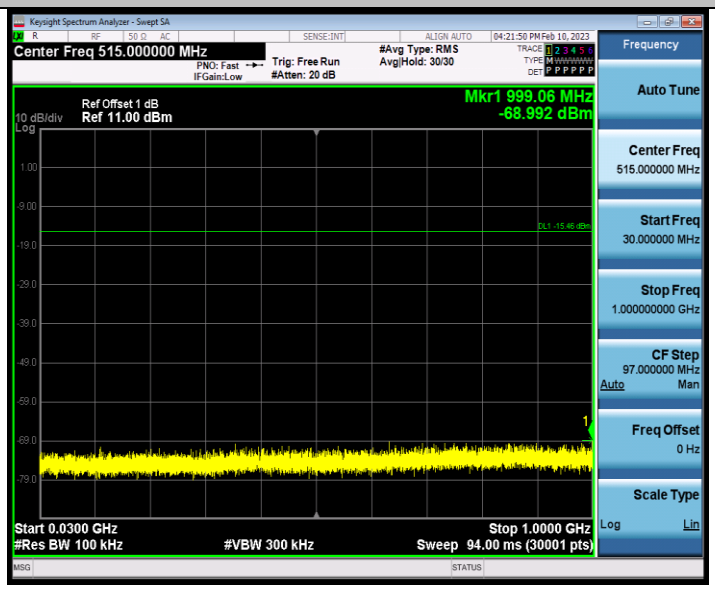
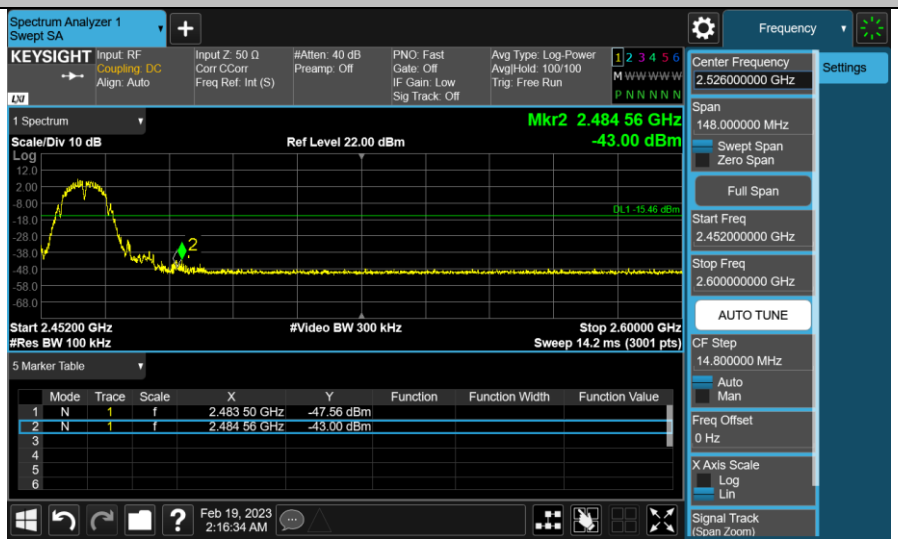
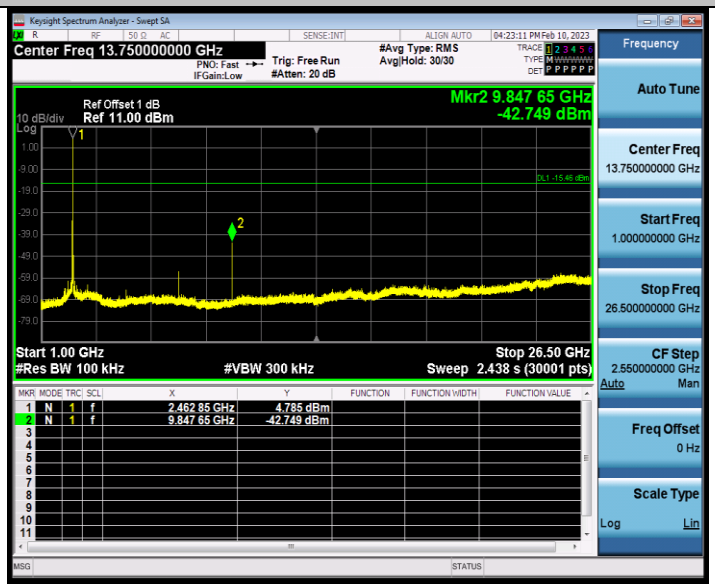
Mode1_2437_30~1000

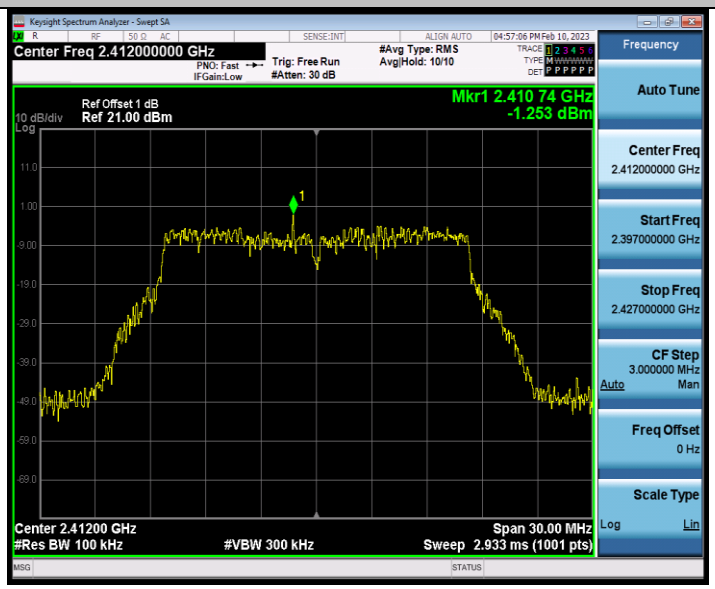
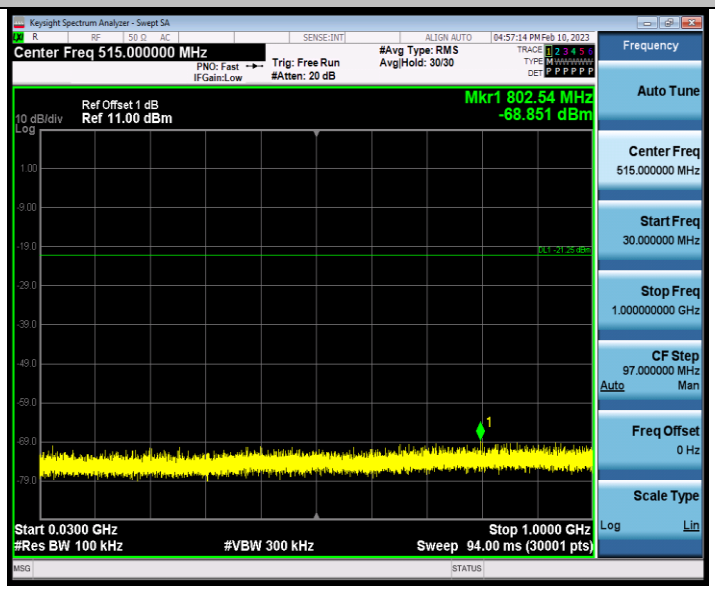


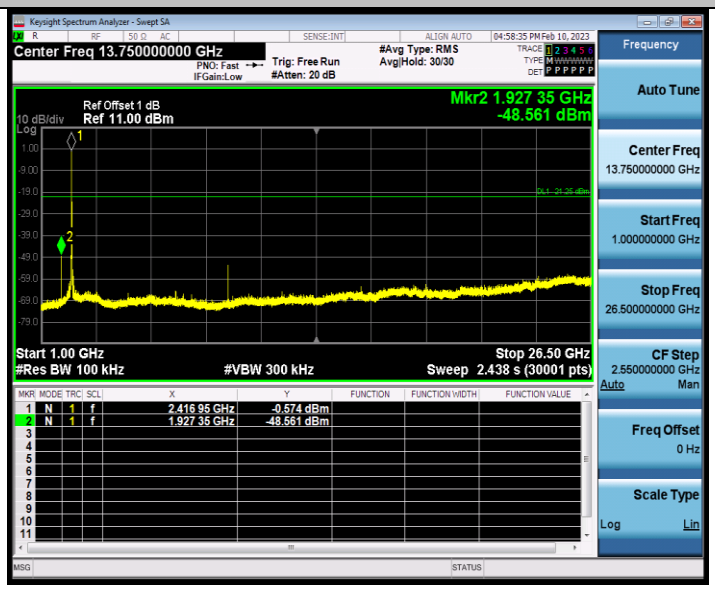
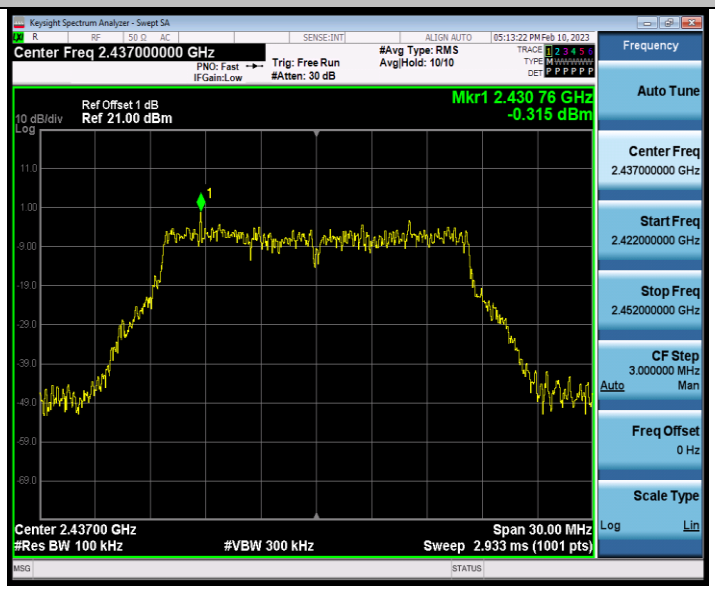
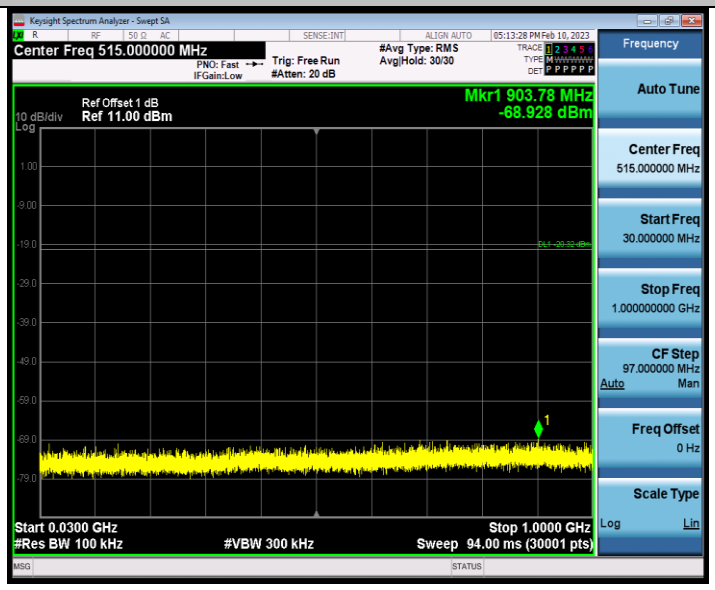
Mode1_2437_1000~26500

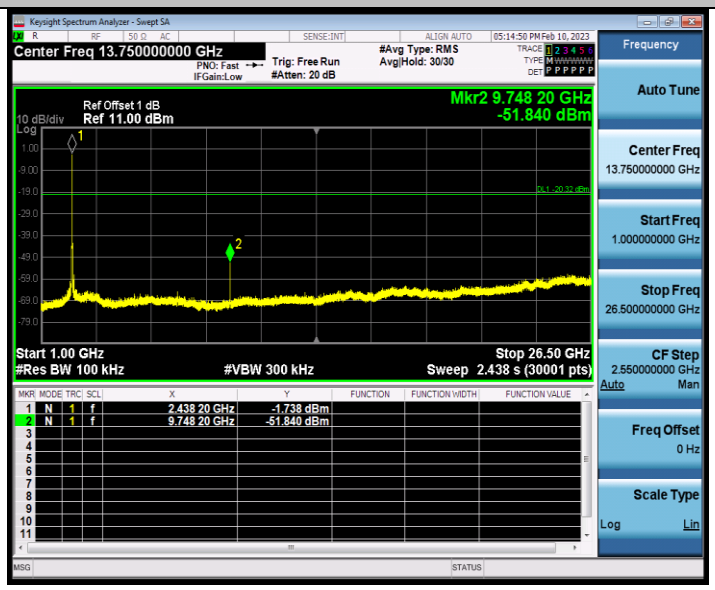
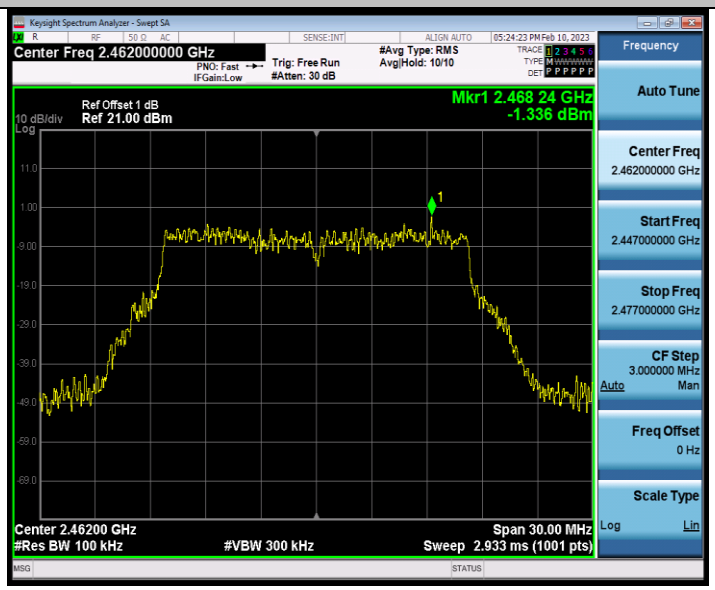
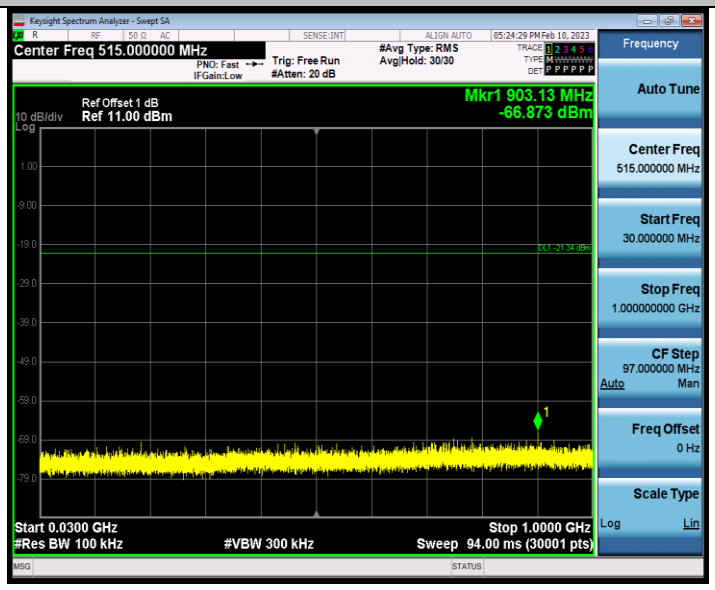


Mode1_2462_0~Reference

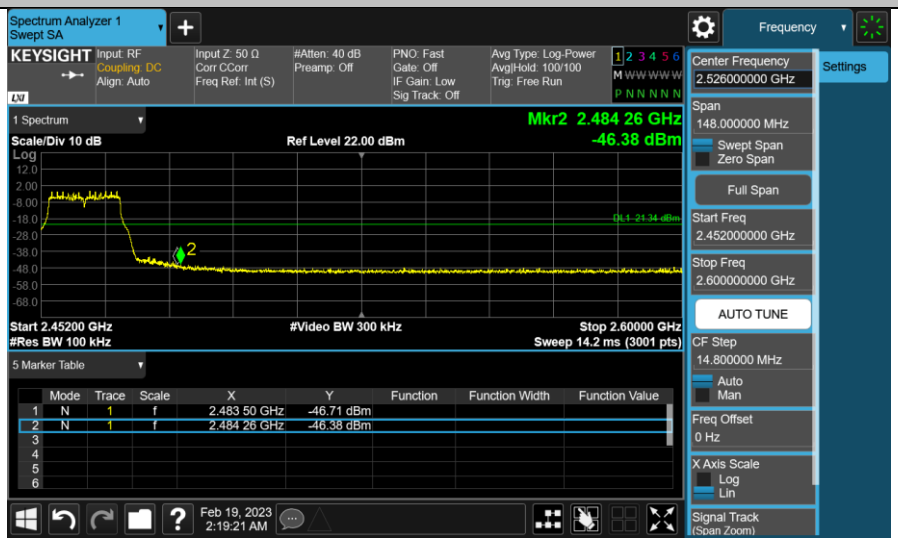
Mode1_2462_30~1000

Mode1_2462_2452~2600

Mode1_2462_1000~26500


Mode2_2412_0~Reference

Mode2_2412_30~1000

Mode2_2412_2350~2422

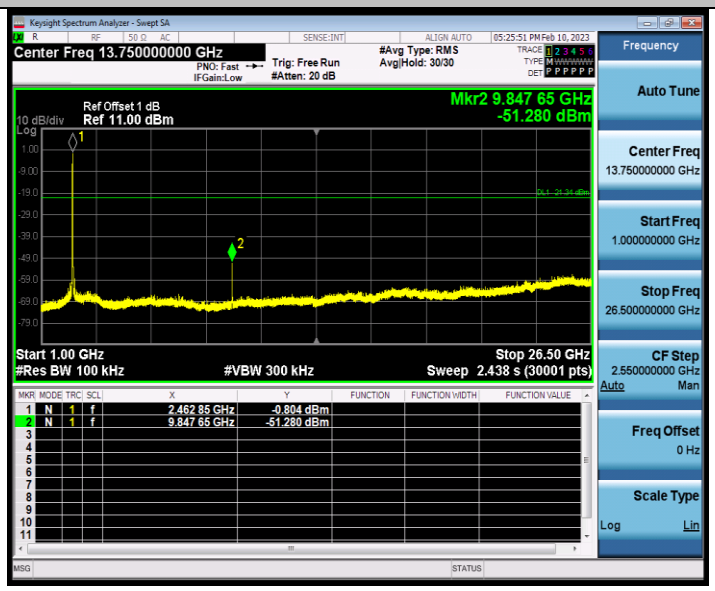

Mode2_2412_1000~26500

Mode2_2437_0~Reference

Mode2_2437_30~1000


Mode2_2437_1000~26500

Mode2_2462_0~Reference

Mode2_2462_30~1000


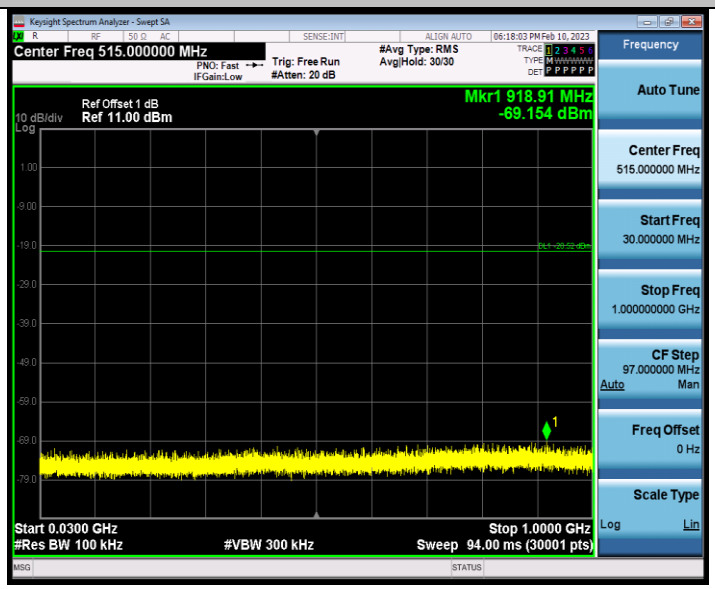
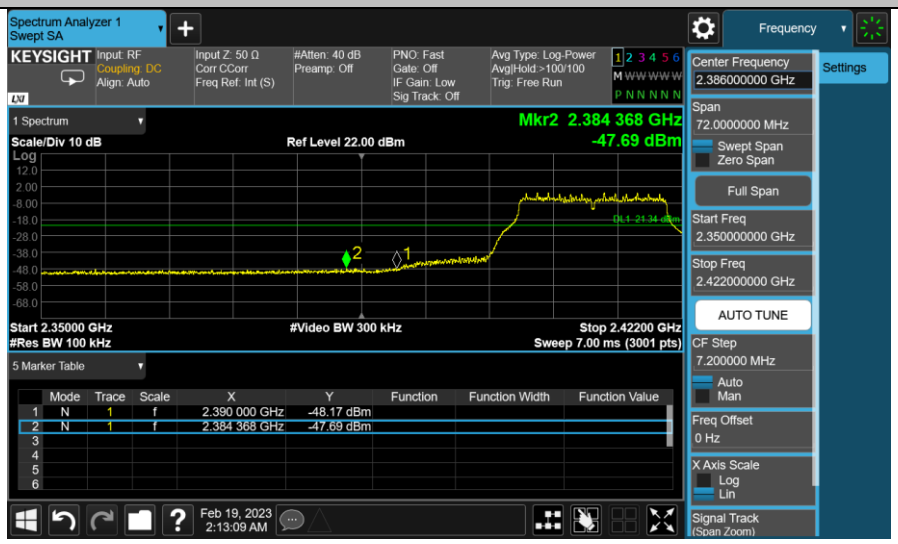
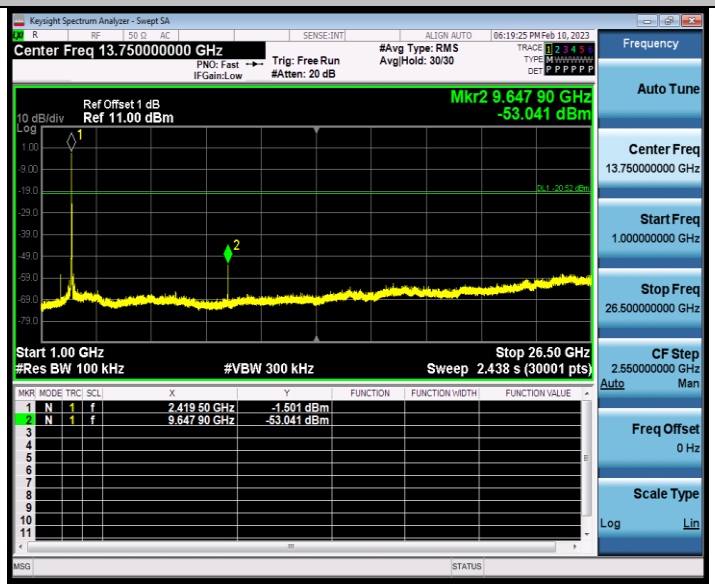
Mode2_2462_2452~2600

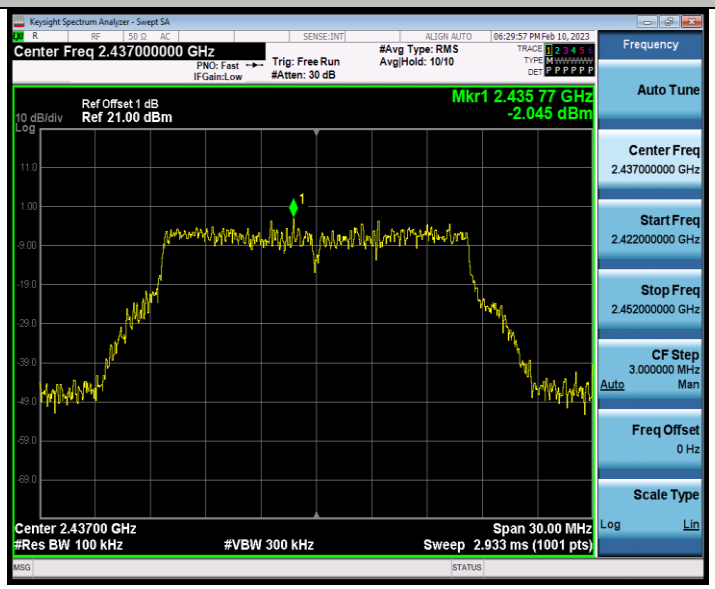
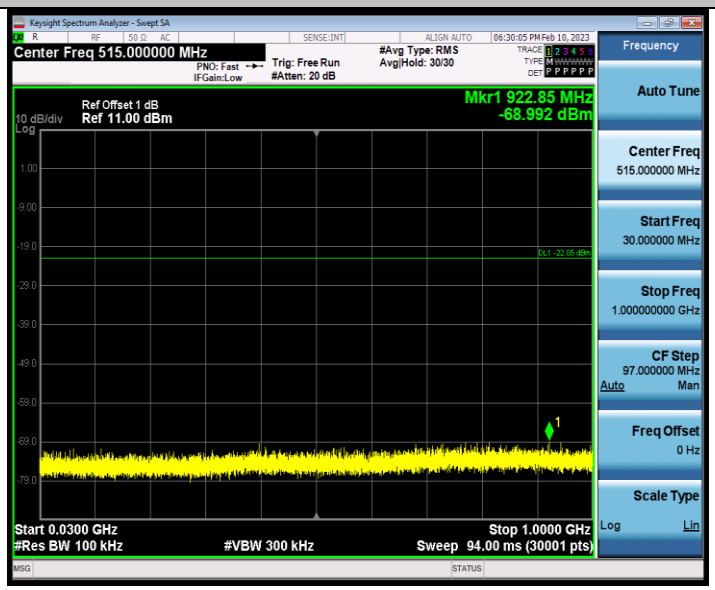
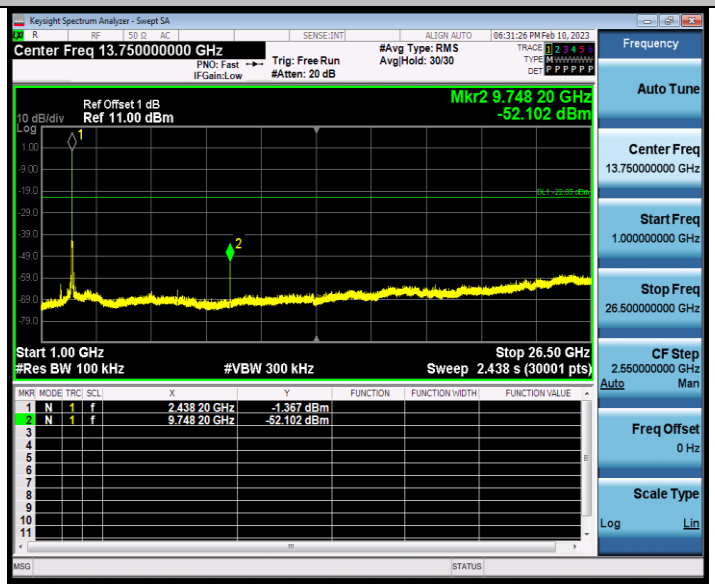


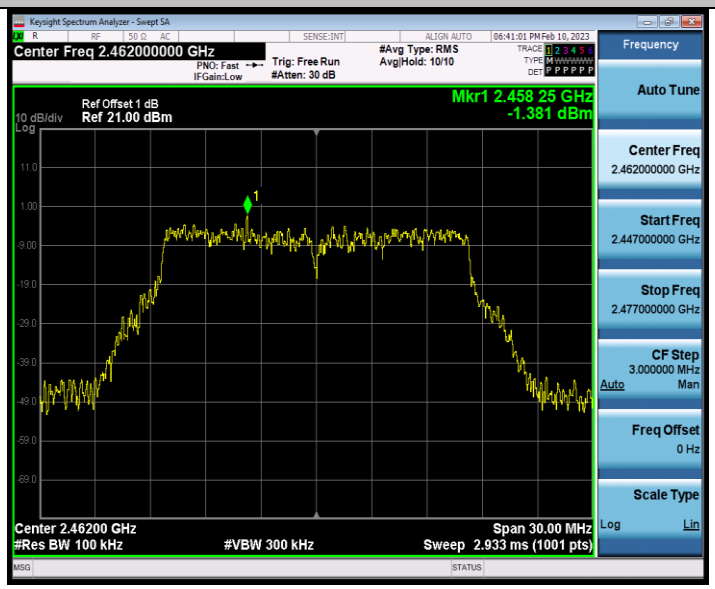
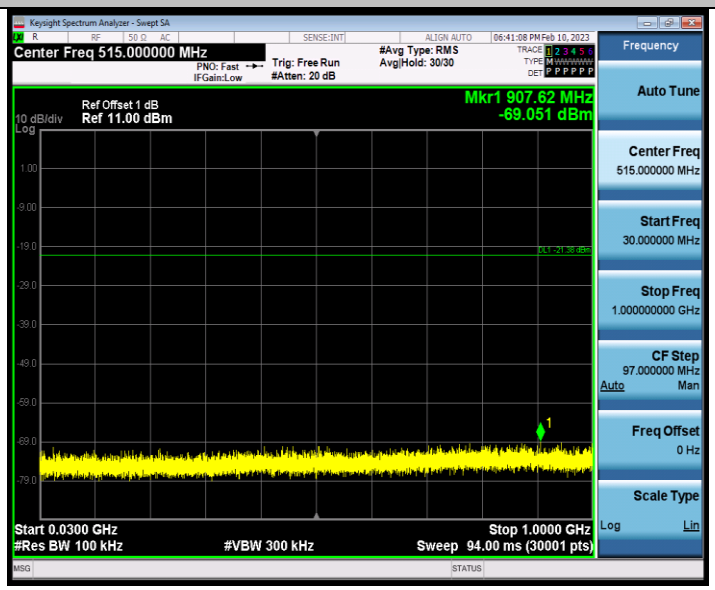
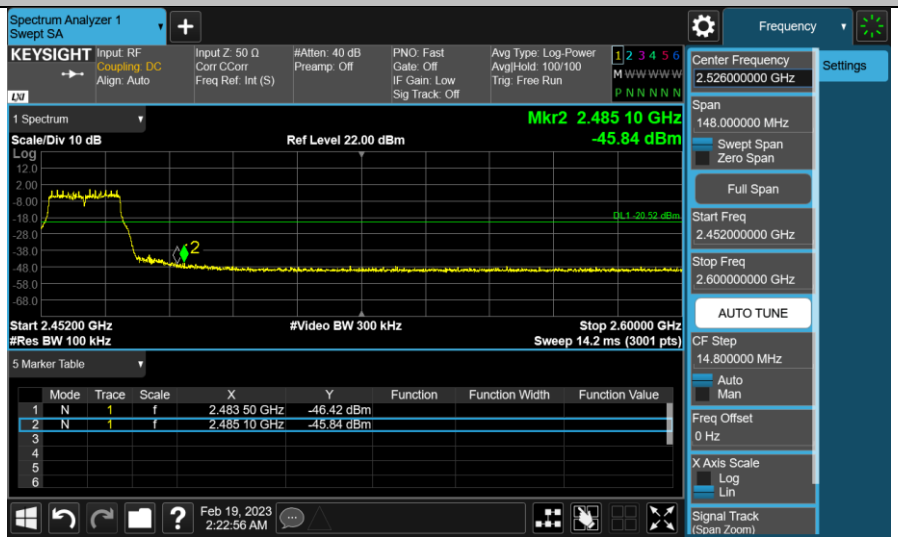
Mode2_2462_1000~26500

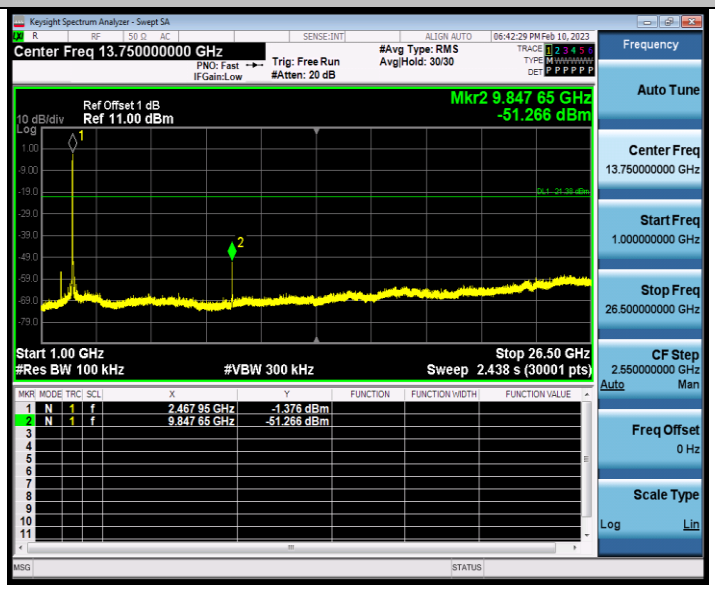


Mode3_2412_0~Reference

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


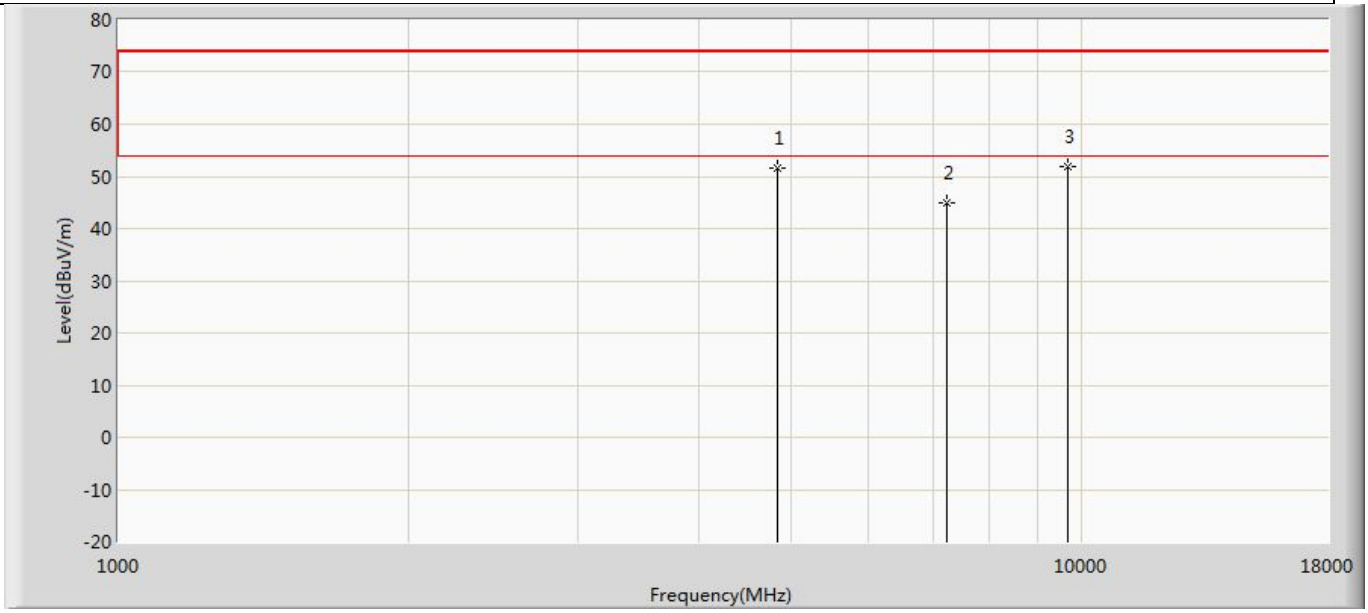
Mode3_2462_1000~26500


Appendix G: Duty Cycle
Test Result

Test Mode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
Mode1	2412	8.61	8.72	98.74	0.06
	2437	8.61	8.71	98.85	0.05
	2462	8.61	8.71	98.85	0.05
Mode2	2412	1.43	1.54	92.86	0.32
	2437	1.43	1.54	92.86	0.32
	2462	1.43	1.54	92.86	0.32
Mode3	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

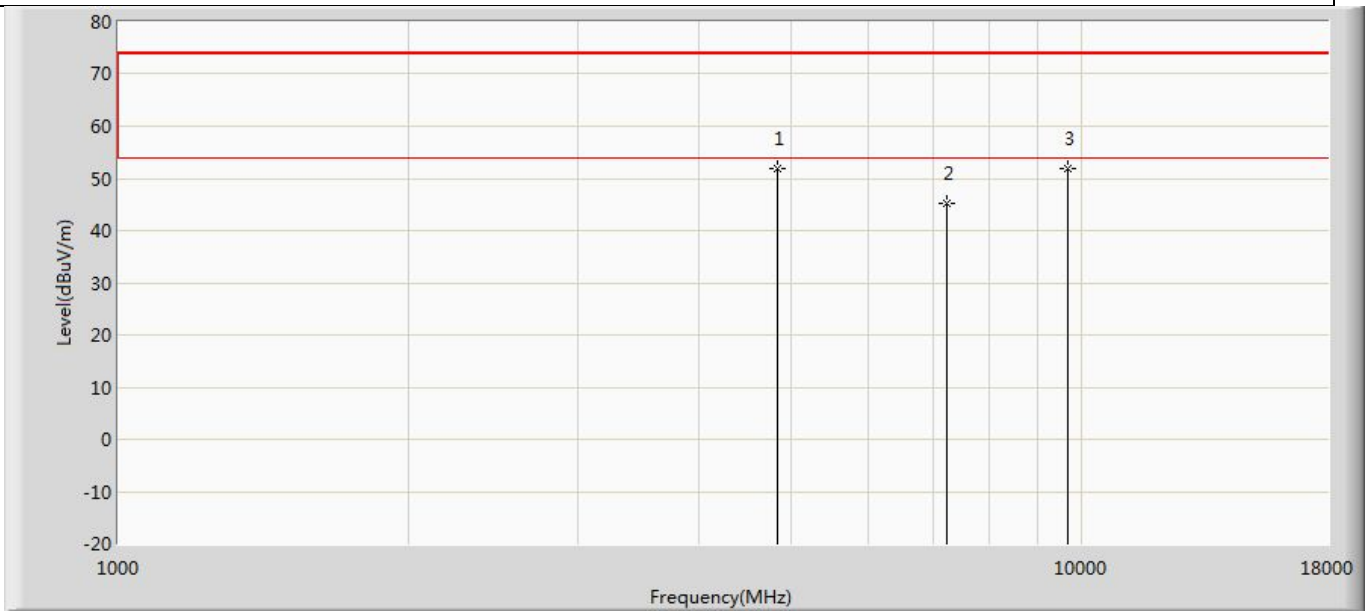
Appendix H: Emissions in Restricted Bands
Test Result

Profile: 2320059R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 1：Transmit at 2412MHz by 802.11b	



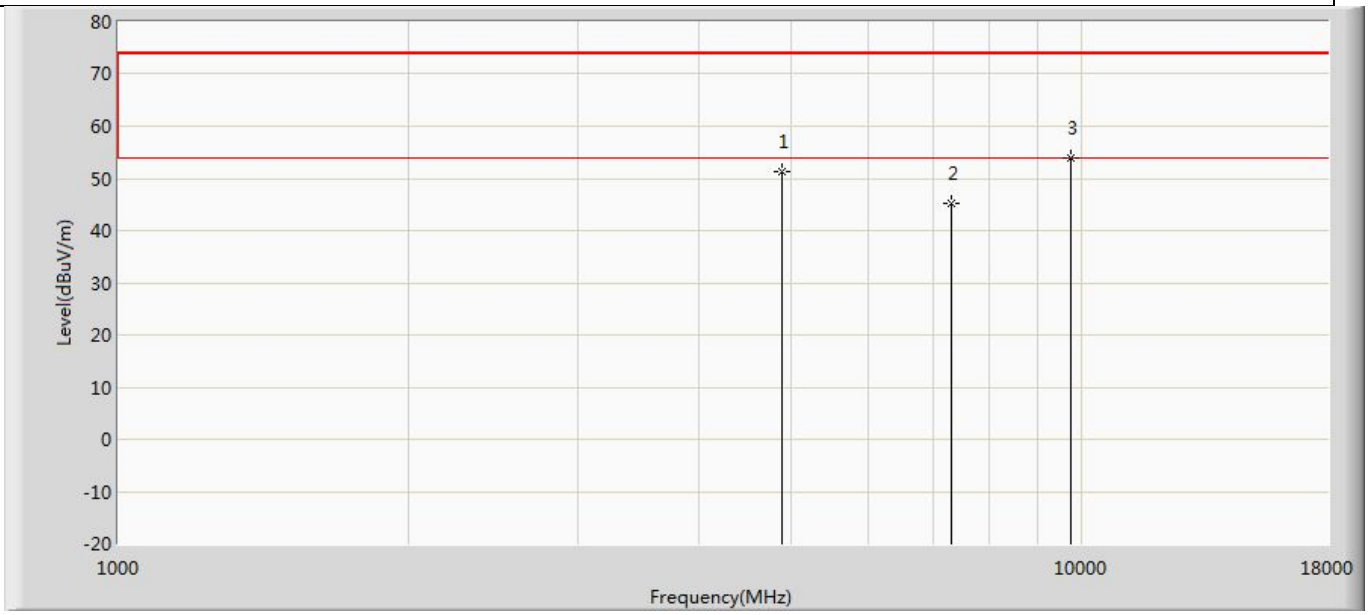
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4825.000	51.681	66.326	-22.319	74.000	-14.646	PK
2		7236.000	44.861	54.619	-29.139	74.000	-9.758	PK
3	*	9653.000	51.954	57.313	-22.046	74.000	-5.359	PK

Profile: 2320059R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 1：Transmit at 2412MHz by 802.11b	



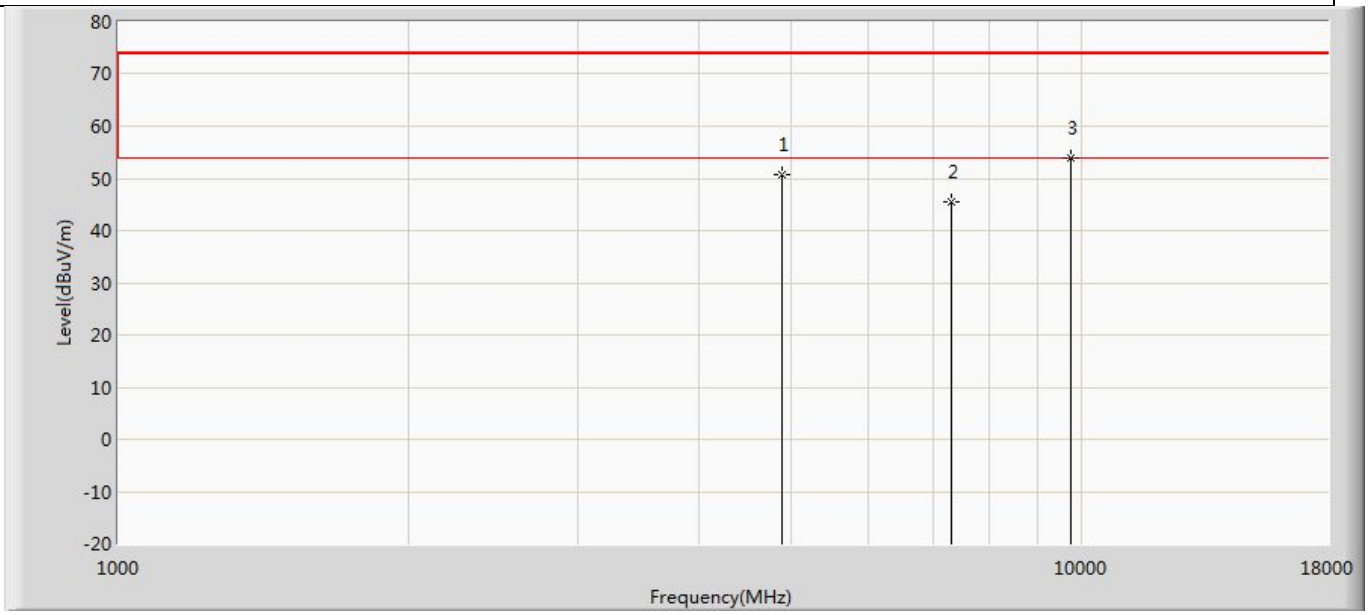
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4825.000	51.776	66.421	-22.224	74.000	-14.646	PK
2		7236.000	45.338	55.096	-28.662	74.000	-9.758	PK
3	*	9653.000	51.949	57.308	-22.051	74.000	-5.359	PK

Profile: 2320059R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 1：Transmit at 2437MHz by 802.11b	



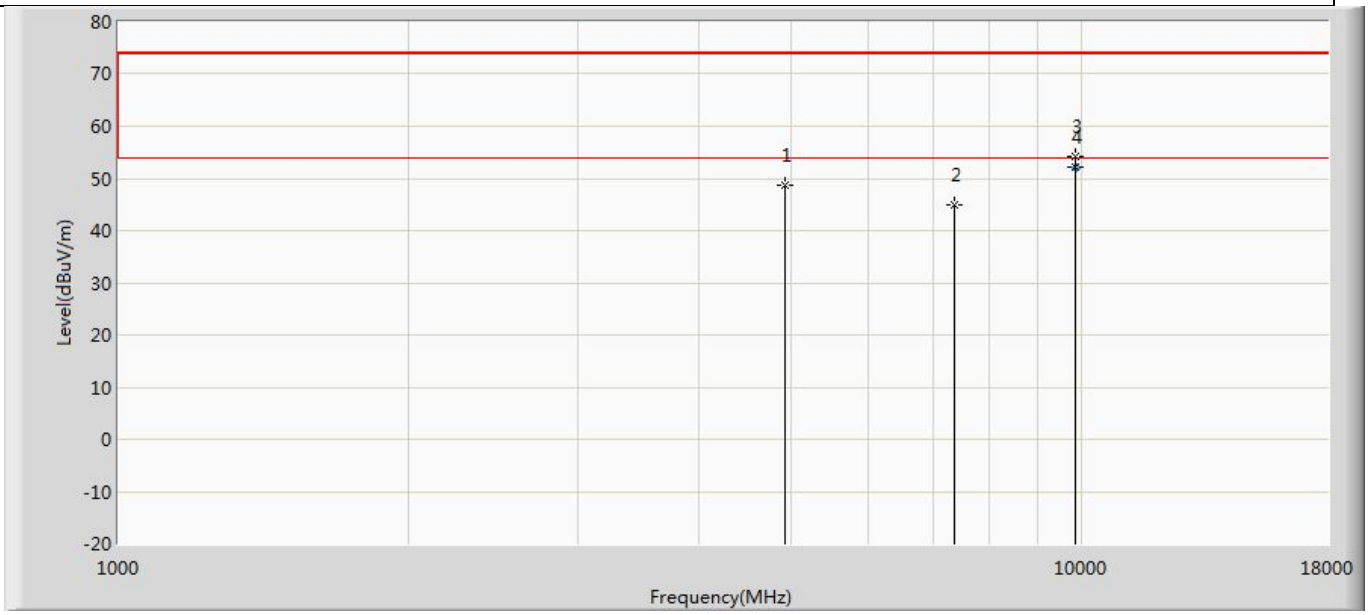
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	51.351	65.648	-22.649	74.000	-14.297	PK
2		7311.000	45.173	54.921	-28.827	74.000	-9.747	PK
3	*	9755.000	53.814	59.278	-20.186	74.000	-5.465	PK

Profile: 2320059R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 1：Transmit at 2437MHz by 802.11b	



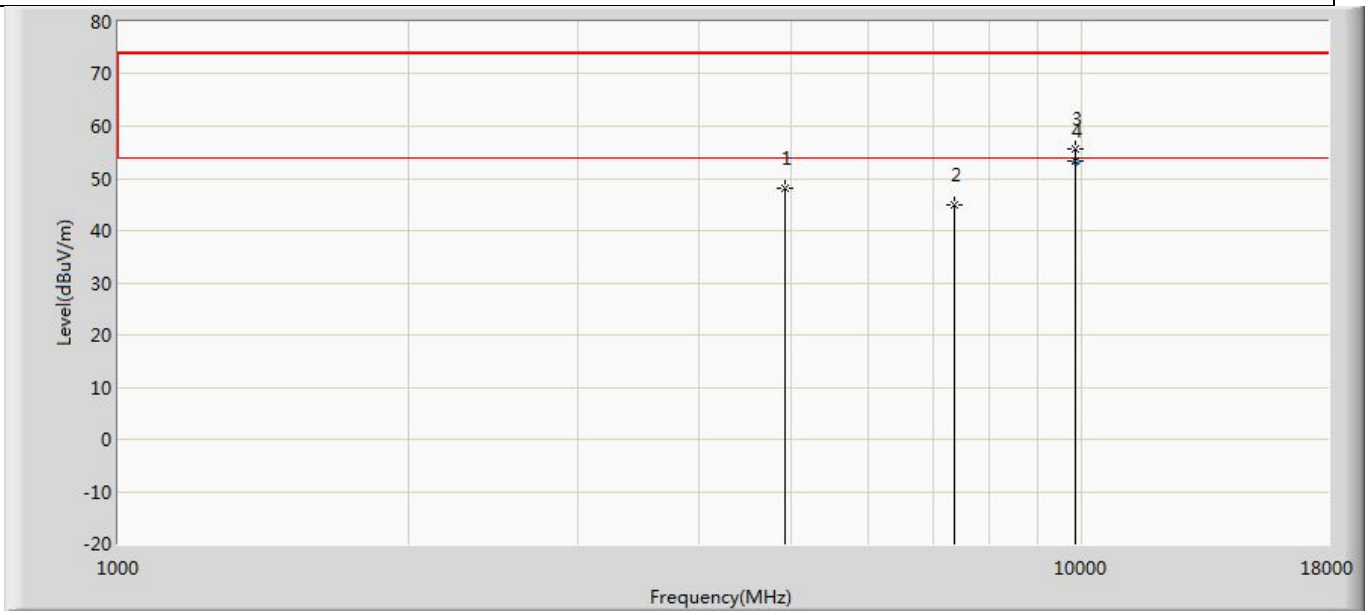
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	50.657	64.954	-23.343	74.000	-14.297	PK
2		7311.000	45.452	55.200	-28.548	74.000	-9.747	PK
3	*	9755.000	53.896	59.360	-20.104	74.000	-5.465	PK

Profile: 2320059R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 1：Transmit at 2462MHz by 802.11b	



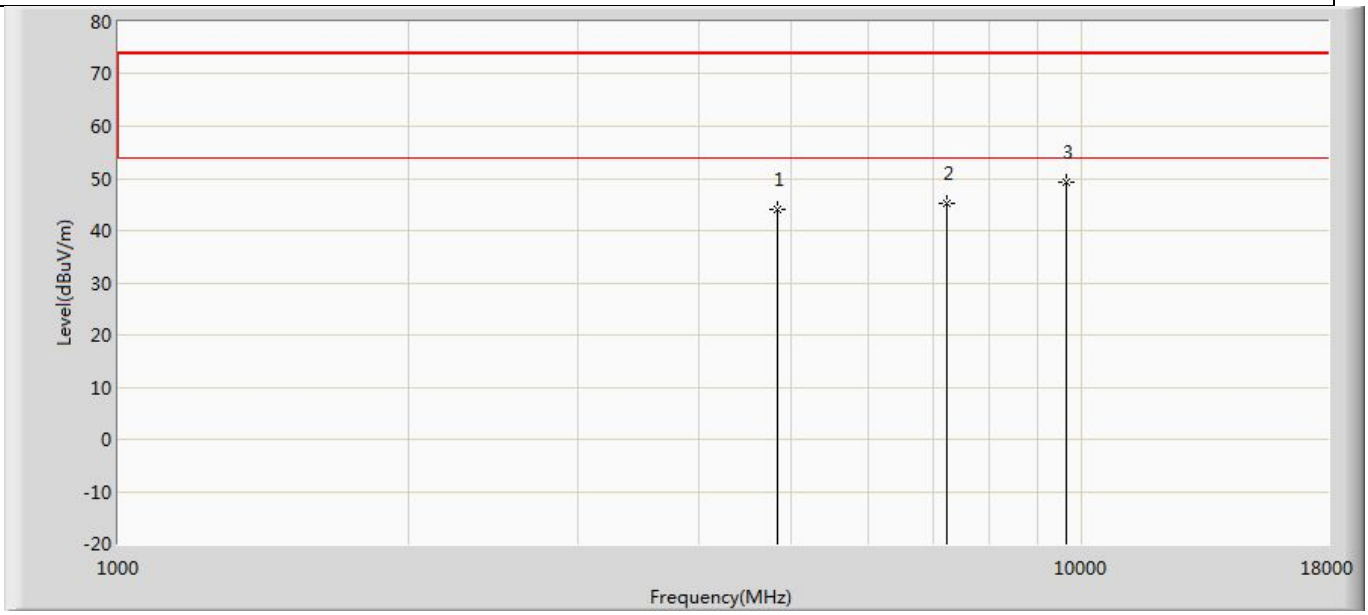
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	48.726	63.239	-25.274	74.000	-14.514	PK
2		7386.000	44.988	54.795	-29.012	74.000	-9.808	PK
3		9840.000	54.144	59.393	-19.856	74.000	-5.249	PK
4	*	9847.960	52.203	57.350	-1.797	54.000	-5.147	AV

Profile: 2320059R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 1：Transmit at 2462MHz by 802.11b	



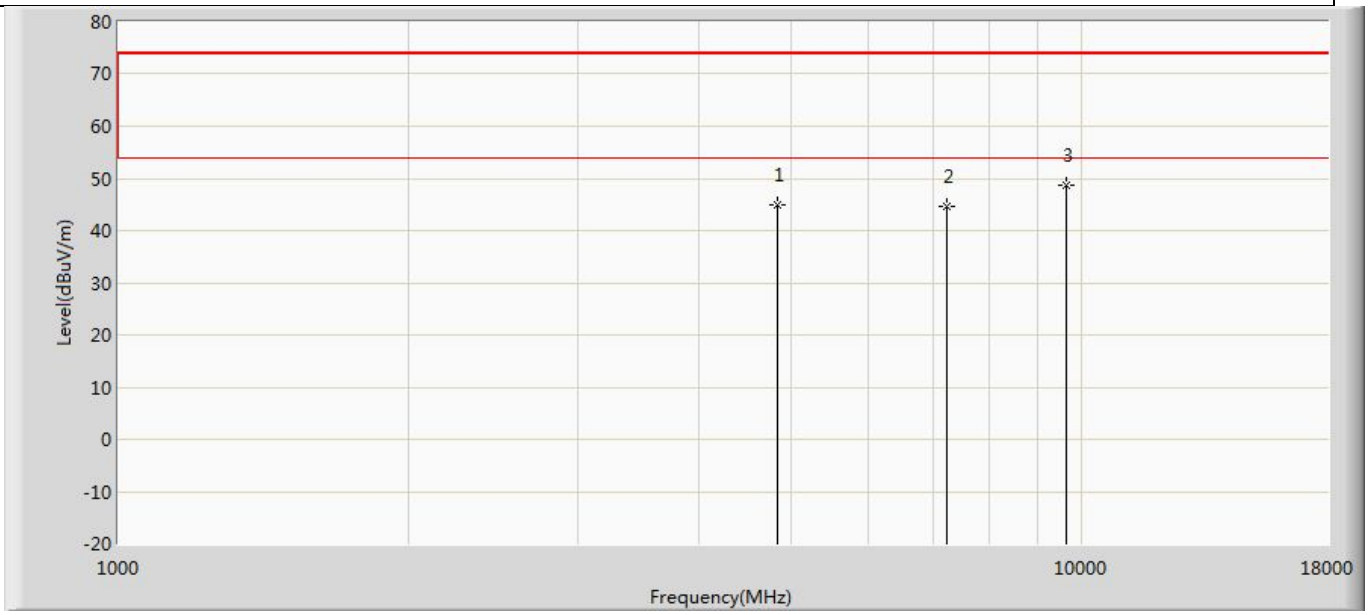
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	48.090	62.603	-25.910	74.000	-14.514	PK
2		7386.000	44.860	54.667	-29.140	74.000	-9.808	PK
3		9840.000	55.710	60.959	-18.290	74.000	-5.249	PK
4	*	9848.000	53.323	58.470	-0.677	54.000	-5.147	AV

Profile: 2320059R	Page No.: 25
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 2：Transmit at 2412MHz by 802.11g	



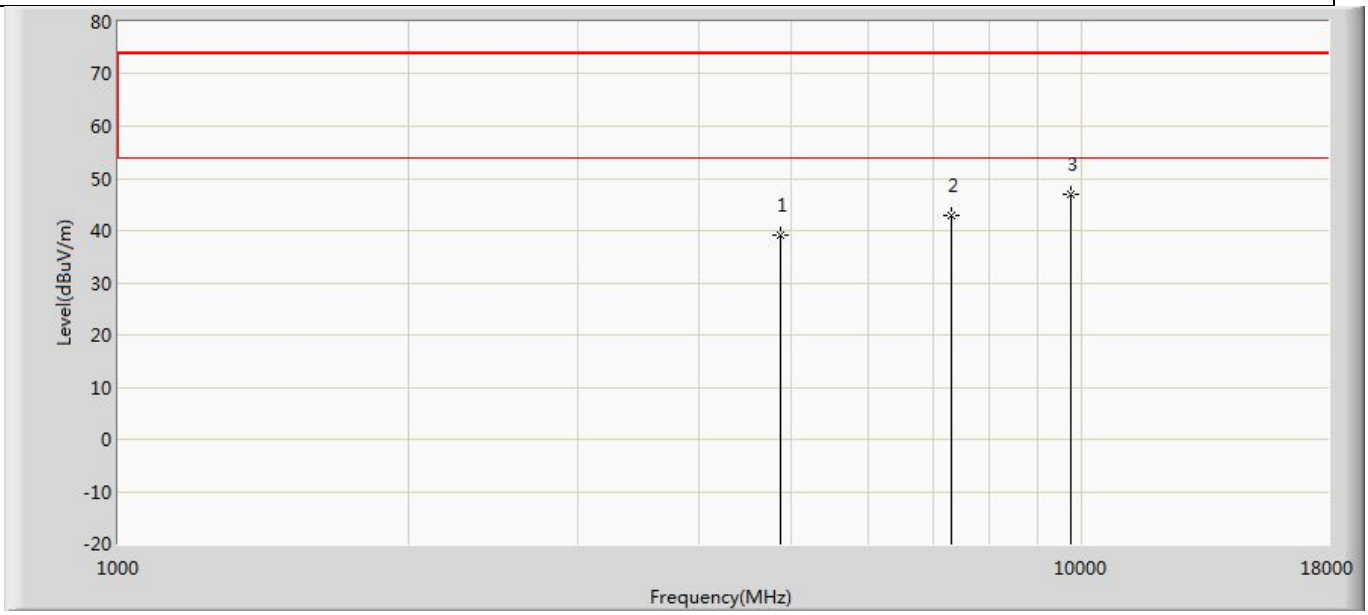
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	44.164	58.809	-29.836	74.000	-14.646	PK
2		7236.000	45.302	55.060	-28.698	74.000	-9.758	PK
3	*	9648.000	49.231	54.644	-24.769	74.000	-5.413	PK

Profile: 2320059R	Page No.: 26
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 2：Transmit at 2412MHz by 802.11g	



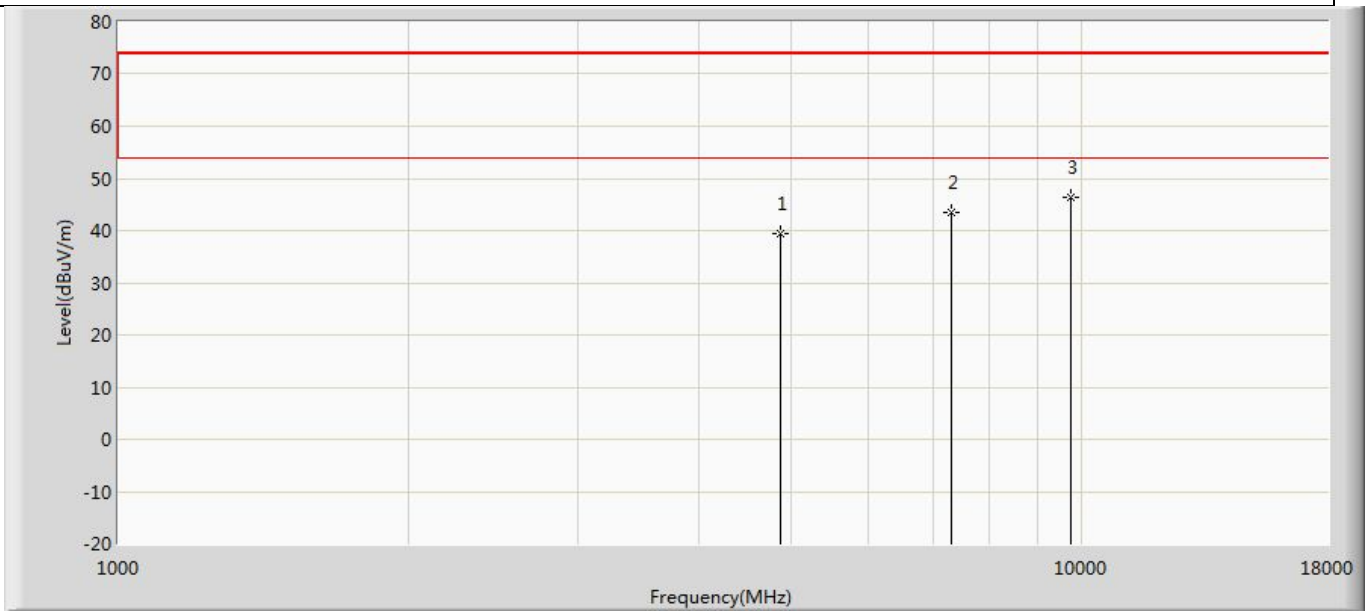
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	44.903	59.548	-29.097	74.000	-14.646	PK
2		7236.000	44.606	54.364	-29.394	74.000	-9.758	PK
3	*	9648.000	48.819	54.232	-25.181	74.000	-5.413	PK

Profile: 2320059R	Page No.: 27
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 2：Transmit at 2437MHz by 802.11g	



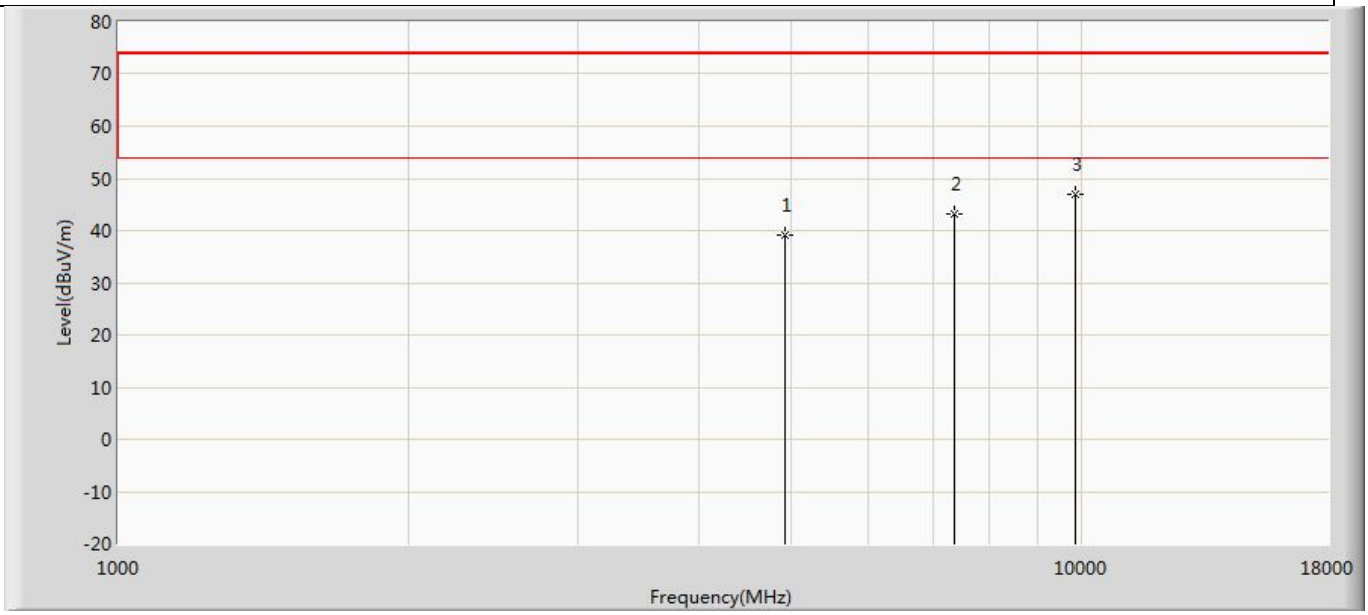
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.266	53.602	-34.734	74.000	-14.335	PK
2		7311.000	42.823	52.571	-31.177	74.000	-9.747	PK
3	*	9748.000	46.846	52.337	-27.154	74.000	-5.491	PK

Profile: 2320059R	Page No.: 28
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 2：Transmit at 2437MHz by 802.11g	



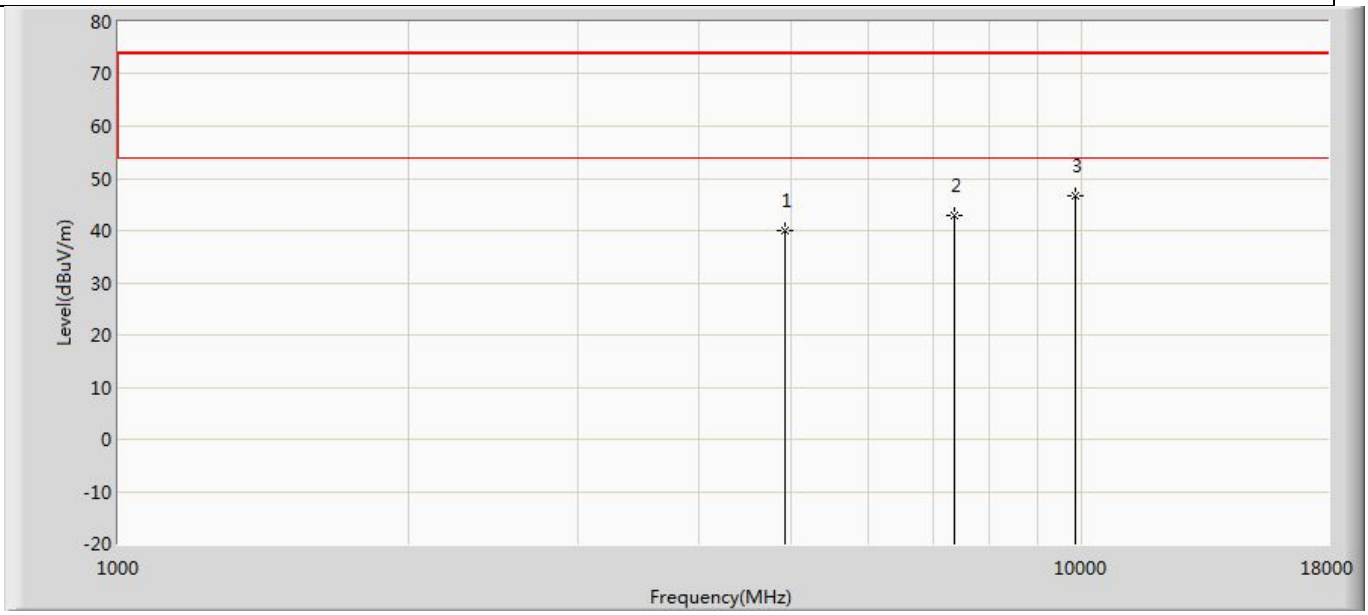
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.552	53.888	-34.448	74.000	-14.335	PK
2		7311.000	43.514	53.262	-30.486	74.000	-9.747	PK
3	*	9748.000	46.500	51.991	-27.500	74.000	-5.491	PK

Profile: 2320059R	Page No.: 29
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 2：Transmit at 2462MHz by 802.11g	



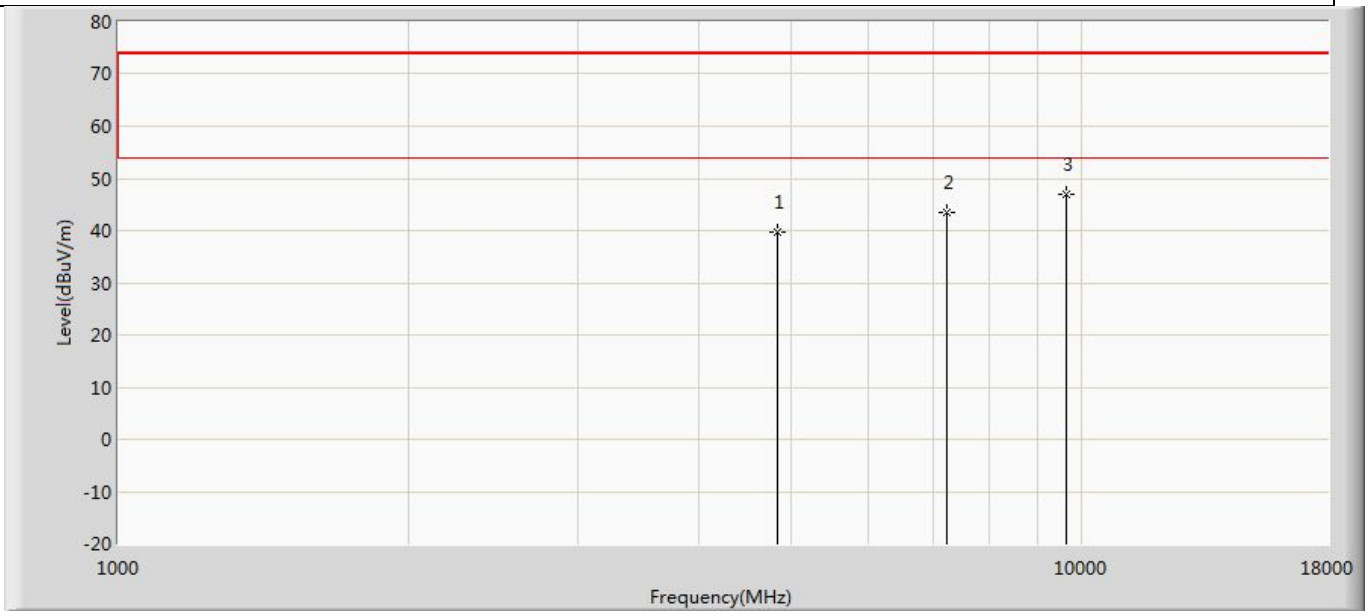
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.081	53.554	-34.919	74.000	-14.473	PK
2		7386.000	43.229	53.036	-30.771	74.000	-9.808	PK
3	*	9848.000	46.954	52.101	-27.046	74.000	-5.147	PK

Profile: 2320059R	Page No.: 30
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 2：Transmit at 2462MHz by 802.11g	



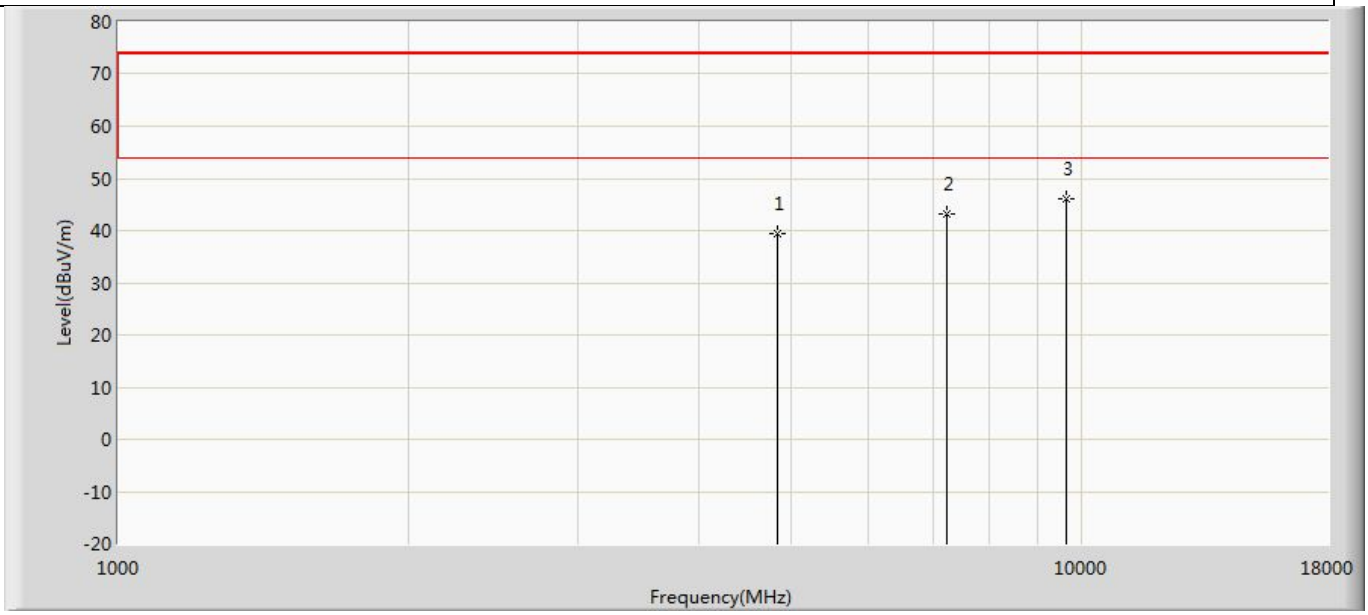
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.082	54.555	-33.918	74.000	-14.473	PK
2		7386.000	42.836	52.643	-31.164	74.000	-9.808	PK
3	*	9848.000	46.600	51.747	-27.400	74.000	-5.147	PK

Profile: 2320059R	Page No.: 31
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 3：Transmit at 2412MHz by 802.11n(20MHz)	



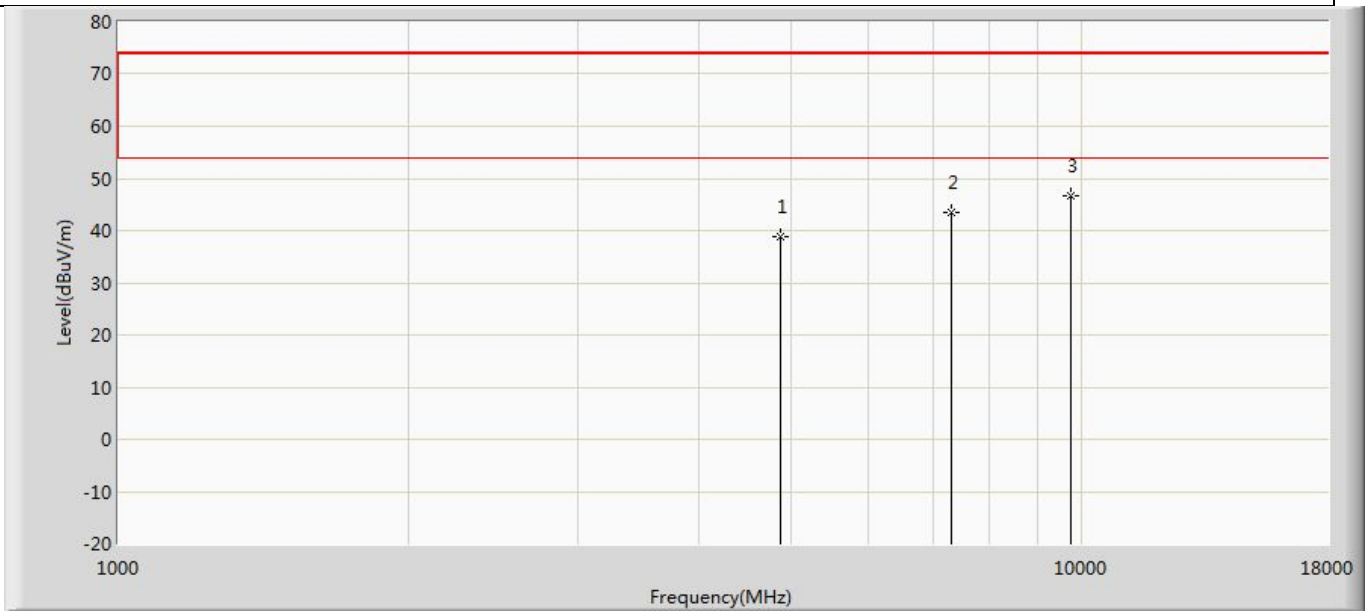
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.653	54.298	-34.347	74.000	-14.646	PK
2		7236.000	43.366	53.124	-30.634	74.000	-9.758	PK
3	*	9648.000	46.927	52.340	-27.073	74.000	-5.413	PK

Profile: 2320059R	Page No.: 32
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 3：Transmit at 2412MHz by 802.11n(20MHz)	



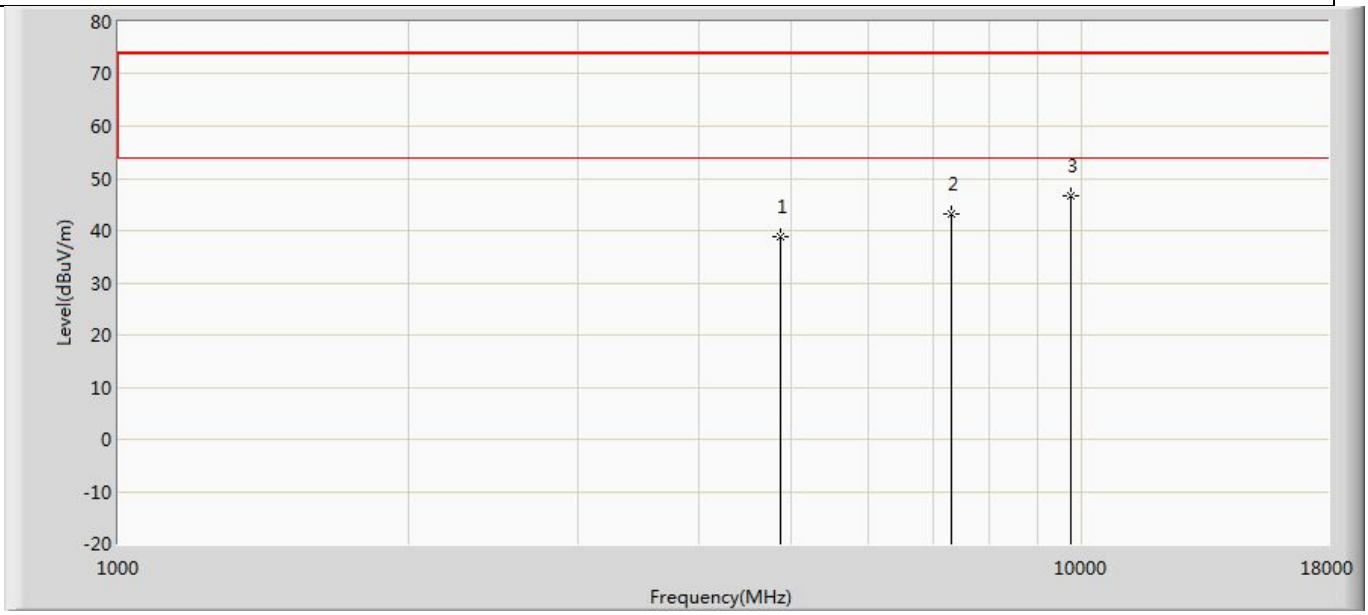
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.336	53.981	-34.664	74.000	-14.646	PK
2		7236.000	43.146	52.904	-30.854	74.000	-9.758	PK
3	*	9648.000	46.118	51.531	-27.882	74.000	-5.413	PK

Profile: 2320059R	Page No.: 33
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	Power:Battery
Note: Mode 3：Transmit at 2437MHz by 802.11n(20MHz)	



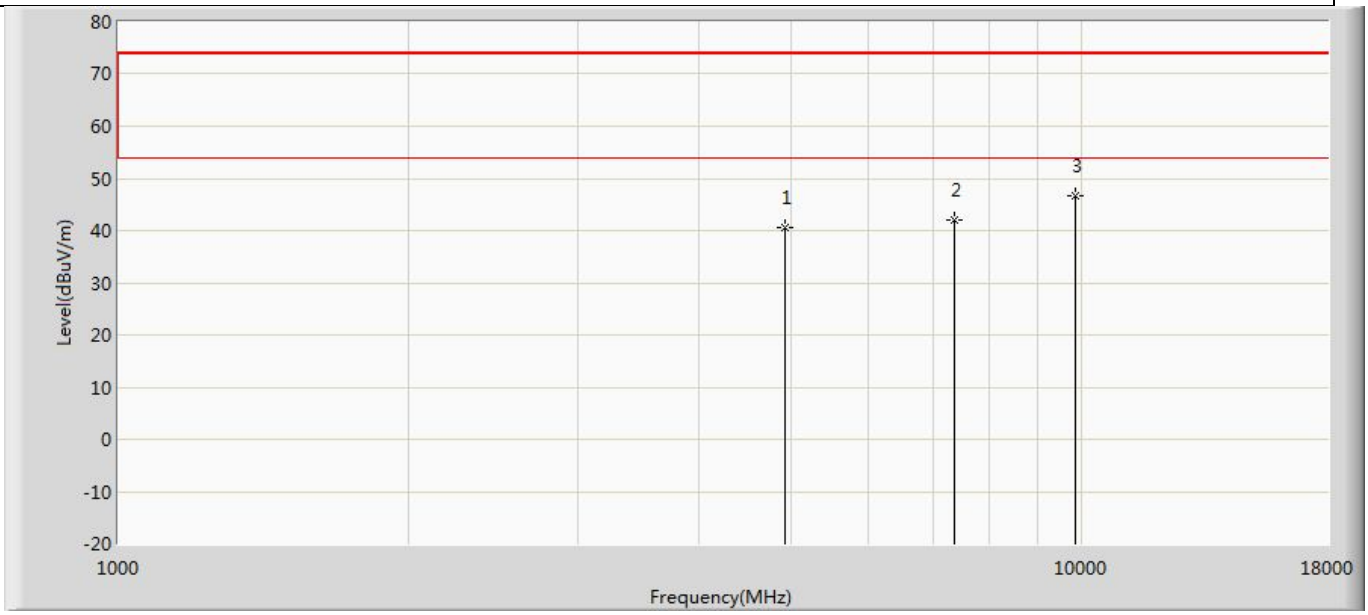
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.729	53.065	-35.271	74.000	-14.335	PK
2		7311.000	43.359	53.107	-30.641	74.000	-9.747	PK
3	*	9748.000	46.575	52.066	-27.425	74.000	-5.491	PK

Profile: 2320059R	Page No.: 34
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 3：Transmit at 2437MHz by 802.11n(20MHz)	



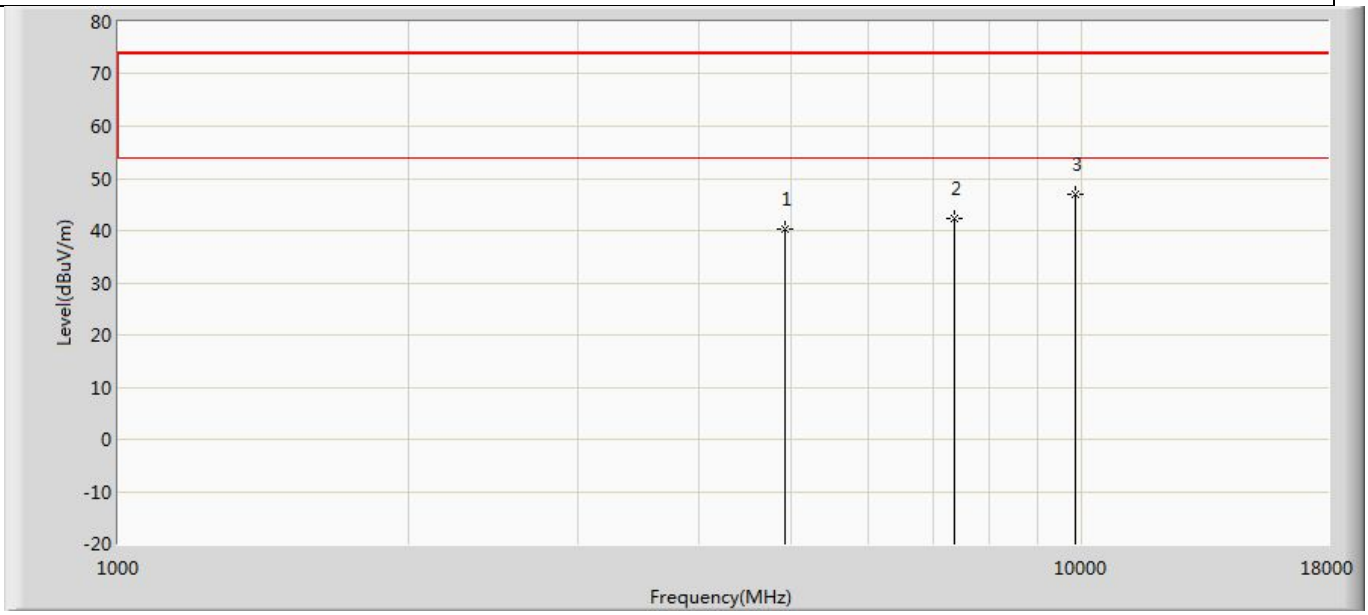
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.883	53.219	-35.117	74.000	-14.335	PK
2		7311.000	43.255	53.003	-30.745	74.000	-9.747	PK
3	*	9748.000	46.799	52.290	-27.201	74.000	-5.491	PK

Profile: 2320059R	Page No.: 35
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Horizontal
EUT: SC2024	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	40.598	55.071	-33.402	74.000	-14.473	PK
2		7386.000	42.147	51.954	-31.853	74.000	-9.808	PK
3	*	9848.000	46.727	51.874	-27.273	74.000	-5.147	PK

Profile: 2320059R	Page No.: 36
Engineer: Yu Liu	
Site: AC5	Time: 2023/02/13 - 21:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)2022	Polarity: Vertical
EUT: SC2024	Power:Battery
Note: Mode 3：Transmit at 2462MHz by 802.11n(20MHz)	

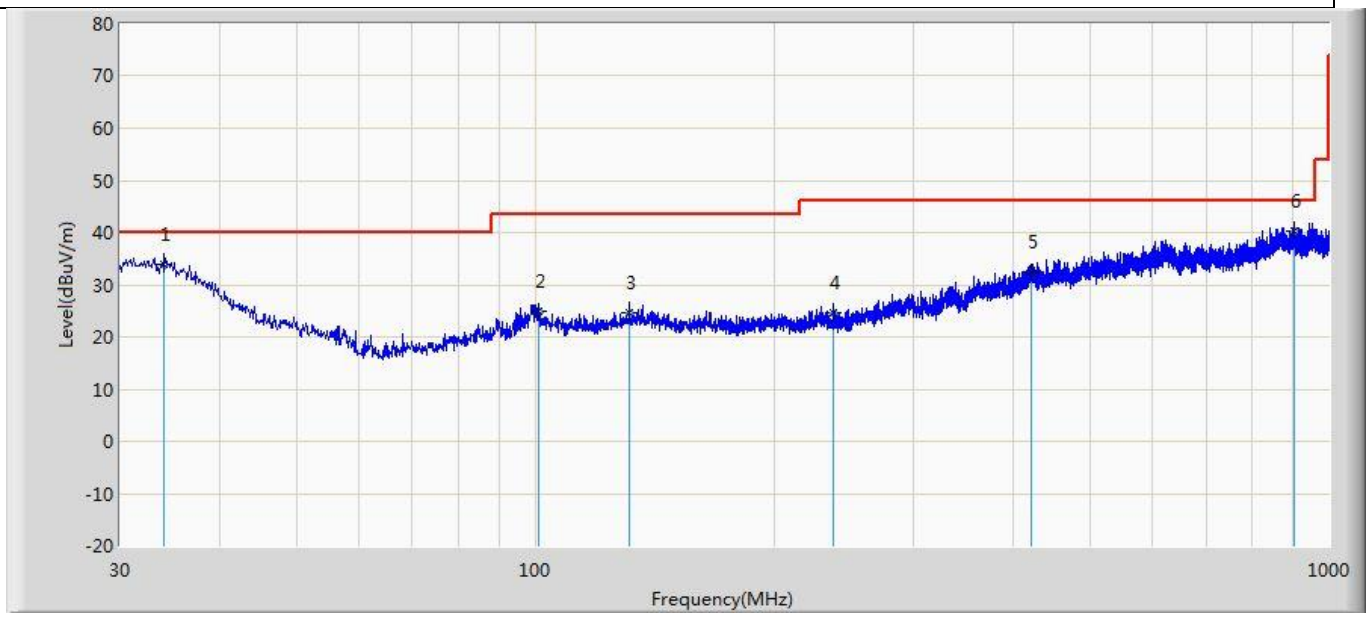


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.245	54.718	-33.755	74.000	-14.473	PK
2		7386.000	42.379	52.186	-31.621	74.000	-9.808	PK
3	*	9848.000	46.916	52.063	-27.084	74.000	-5.147	PK

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.

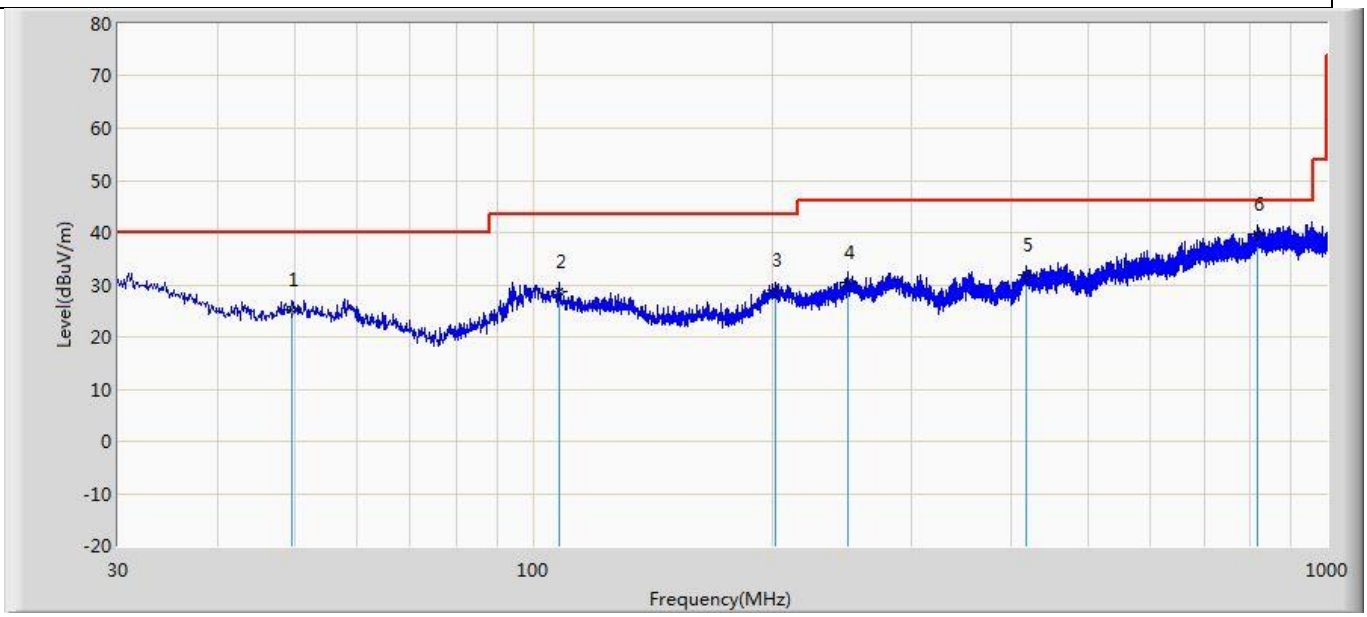
The worst case of Radiated Emission below 1GHz:

Profile: 2320059R	Page No.: 145
Engineer: Yu Liu	
Site: AC2	Time: 2023/02/14 - 07:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: SC2024	Power: Battery
Note: Mode1: 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		34.123	33.989	6.929	-6.011	40.000	27.060	QP
2		101.052	24.846	7.729	-18.654	43.500	17.117	QP
3		131.486	24.606	7.014	-18.894	43.500	17.592	QP
4		237.944	24.714	7.217	-21.286	46.000	17.497	QP
5		421.152	32.501	5.329	-13.499	46.000	27.172	QP
6	*	902.273	40.314	7.148	-5.686	46.000	33.166	QP

Profile: 2320059R	Page No.: 146
Engineer: Yu Liu	
Site: AC2	Time: 2023/02/14 - 07:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: SC2024	Power: Battery
Note: Mode1: Transmit at 2412MHz by 802.11b	

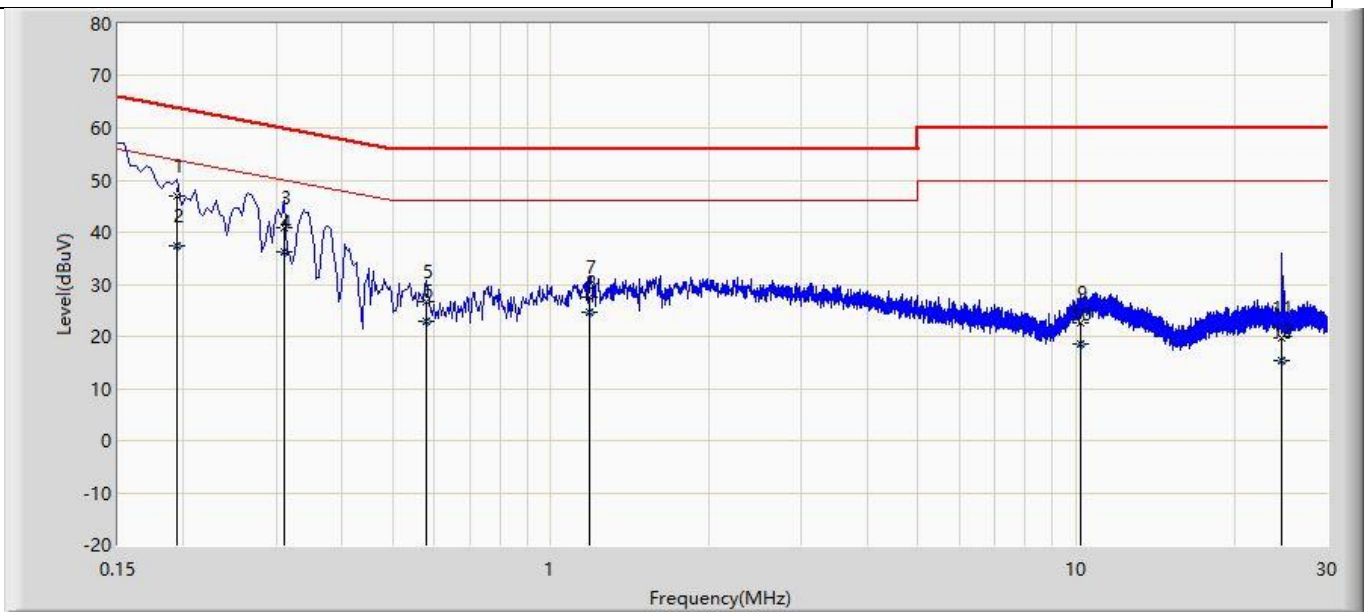


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		49.764	25.301	5.871	-14.699	40.000	19.430	QP
2		107.721	28.607	7.025	-14.893	43.500	21.582	QP
3		201.811	28.941	5.454	-14.559	43.500	23.487	QP
4		249.705	30.447	5.979	-15.553	46.000	24.468	QP
5		417.758	31.924	5.416	-14.076	46.000	26.508	QP
6	*	818.974	39.621	6.675	-6.379	46.000	32.946	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.

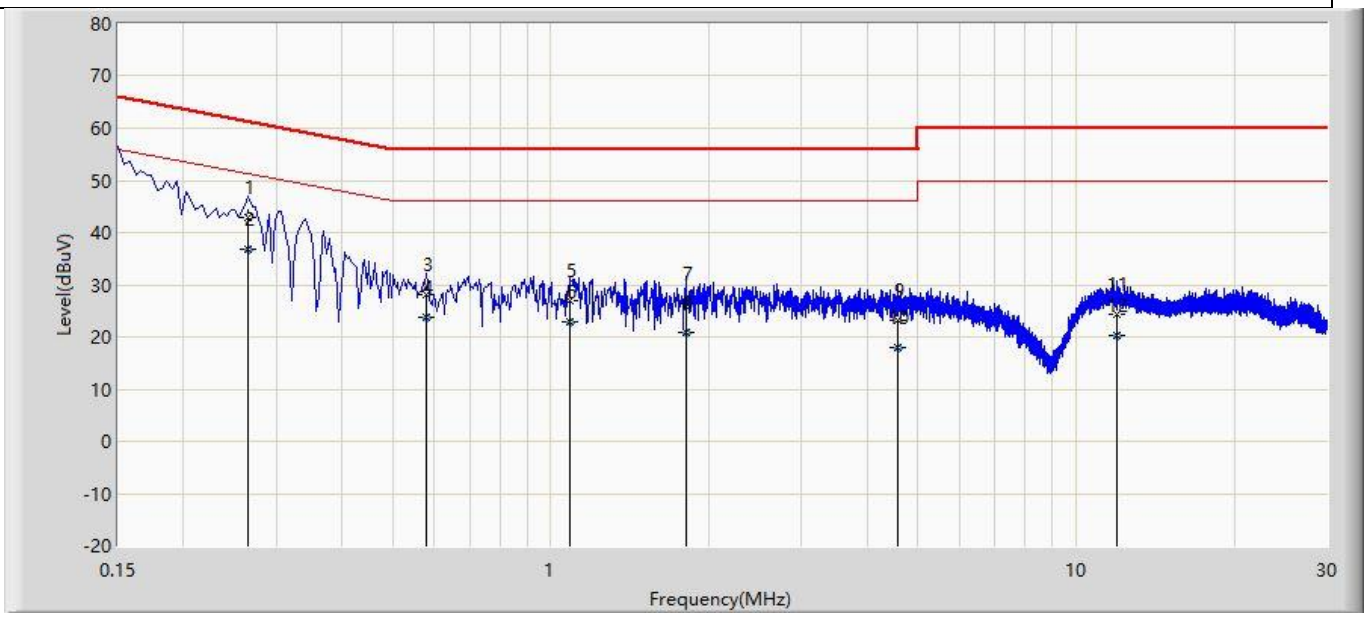
Appendix I: AC Power Line Conducted Emission
Test Result

Profile: 2320059R	Page No.: 137
Engineer: Yu Liu	
Site: TR1	Time: 2023/02/14 - 07:29
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: SC2024	Power: Battery
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		0.194	46.957	37.380	-16.907	63.864	9.577	QP
2		0.194	37.459	27.882	-16.405	53.864	9.577	AV
3		0.310	40.895	31.298	-19.075	59.970	9.597	QP
4	*	0.310	36.173	26.575	-13.798	49.970	9.597	AV
5		0.578	26.534	16.902	-29.466	56.000	9.632	QP
6		0.578	22.996	13.364	-23.004	46.000	9.632	AV
7		1.186	27.525	17.866	-28.475	56.000	9.659	QP
8		1.186	24.719	15.060	-21.281	46.000	9.659	AV
9		10.178	22.659	12.642	-37.341	60.000	10.017	QP
10		10.178	18.420	8.402	-31.580	50.000	10.017	AV
11		24.530	19.717	9.346	-40.283	60.000	10.372	QP
12		24.530	15.311	4.939	-34.689	50.000	10.372	AV

Profile: 2320059R	Page No.: 138
Engineer: Yu Liu	
Site: TR1	Time: 2023/02/14 - 07:32
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: SC2024	Power: Battery
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		0.266	42.980	33.383	-18.262	61.242	9.596	QP
2	*	0.266	36.806	27.209	-14.436	51.242	9.596	AV
3		0.578	28.127	18.491	-27.873	56.000	9.636	QP
4		0.578	23.889	14.253	-22.111	46.000	9.636	AV
5		1.090	27.040	17.390	-28.960	56.000	9.651	QP
6		1.090	22.769	13.118	-23.231	46.000	9.651	AV
7		1.810	26.496	16.819	-29.504	56.000	9.677	QP
8		1.810	20.957	11.280	-25.043	46.000	9.677	AV
9		4.570	23.231	13.433	-32.769	56.000	9.797	QP
10		4.570	17.900	8.103	-28.100	46.000	9.797	AV
11		11.922	24.469	14.408	-35.531	60.000	10.061	QP
12		11.922	20.418	10.357	-29.582	50.000	10.061	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