1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test item	:	Cabinet Lock
Identification / Type No.	:	E2135
FCC ID	:	FHO-E2135
IC		10912A-E2135
HVIN	:	E2135
Test standard	:	CFR47 FCC Part 2: Section 2.1093 FCC KDB Publication 447498 D01 v06 RSS-102 Issue 5 February 2021

1.1.1.1 RF Exposure Compliance Requirement for FCC

The EUT shall comply with the requirement of 447498 D01 section 4.3 and Appendix C.

SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	mW
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

The nominal maximum output power specified:

The max. field strength is 53.67dBuV/m@3m, according to ANSI C63.10 the max. ERP=-37.68dBm = 0.0002mW that is less than 308mW for 50MHz as showing on above table.

- **Conclusion**

Therefore, the maximum calculations result of above are meet the requirement of FCC Radio Frequency Exposure (MPE) limit.

1.1.1.2 RF Exposure Compliance Requirement for IC

The EUT shall comply with the requirement of RSS-102 section 2.5.2.

Exemption from Routine Evaluation Limits – RF Exposure Evaluation

Below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance).

The nominal maximum output power specified:

The max. field strength is 53.67dBuV/m@3m, according to ANSI C63.10 the max. ERP=-37.68dBm = 0.0002mW that is less than 1W.

- **Conclusion**

Therefore, the maximum calculations result of above are meet the requirement of IC Radio Frequency Exposure (MPE) limit.