



## Co-location Report

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**FCC ID:** YLFSE2200

**Applicant:** 7Signal Solutions, Inc

**Application Type:** Certification

**Product:** 7Signal Sapphire Eye

**Model No.:** 2200

**Brand Name:** 7Signal

**FCC Classification:** Digital Transmission System (DTS)  
Unlicensed National Information Infrastructure (UNII)

**Test Date:** December 13, 2018

**Reviewed By:**

( Jame Yuan )

**Approved By:**

( Robin Wu )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2013. Test results reported herein relate only to the item(s) tested.

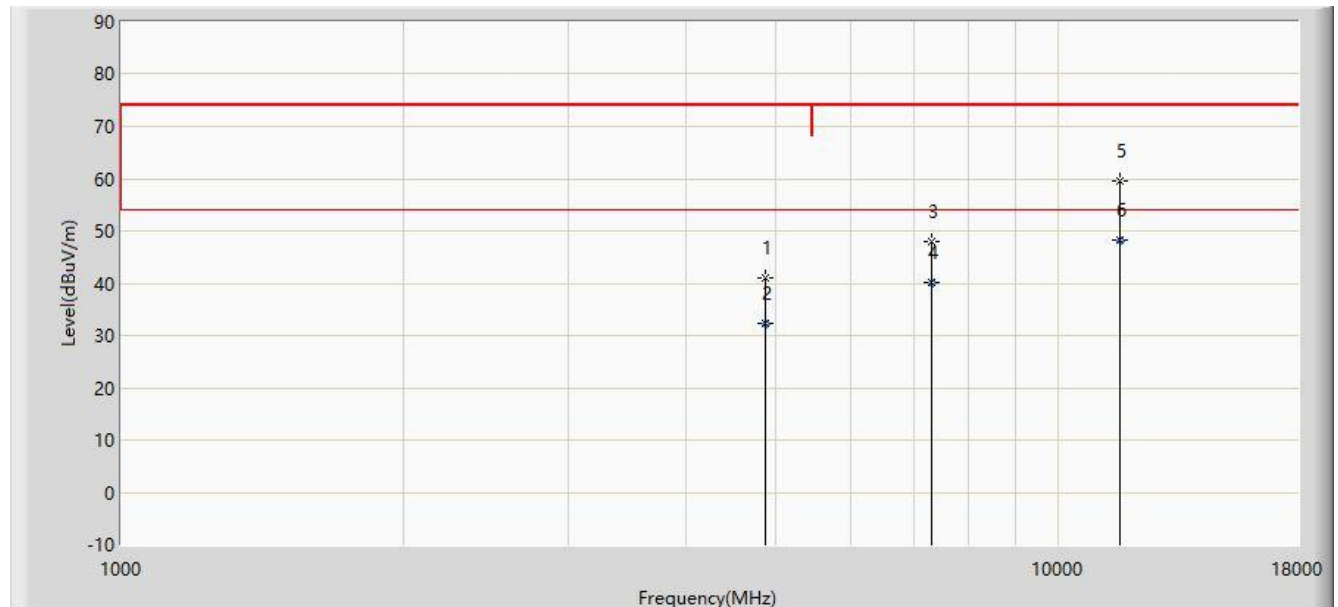
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## Revision History

Report No.	Version	Description	Issue Date	Note
1811RSU031-U4	Rev. 01	Initial report	01-04-2019	Valid

## 1. TEST RESULT of Radiated Emissions for Co-located

Test Mode:	2.4GHz Wi-Fi + 5GHz Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Max Wang	Polarity:	Horizontal
Test Item	Co-location	Test Date	2018/12/13
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4874.000	40.917	34.942	-33.083	74.000	5.976	PK
2			4874.000	32.445	26.470	-21.555	54.000	5.976	AV
3			7311.000	47.906	35.382	-26.094	74.000	12.524	PK
4			7311.000	40.144	27.620	-13.856	54.000	12.524	AV
5			11650.000	59.431	41.820	-14.569	74.000	17.611	PK
6		*	11650.000	48.341	30.730	-5.659	54.000	17.611	AV

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

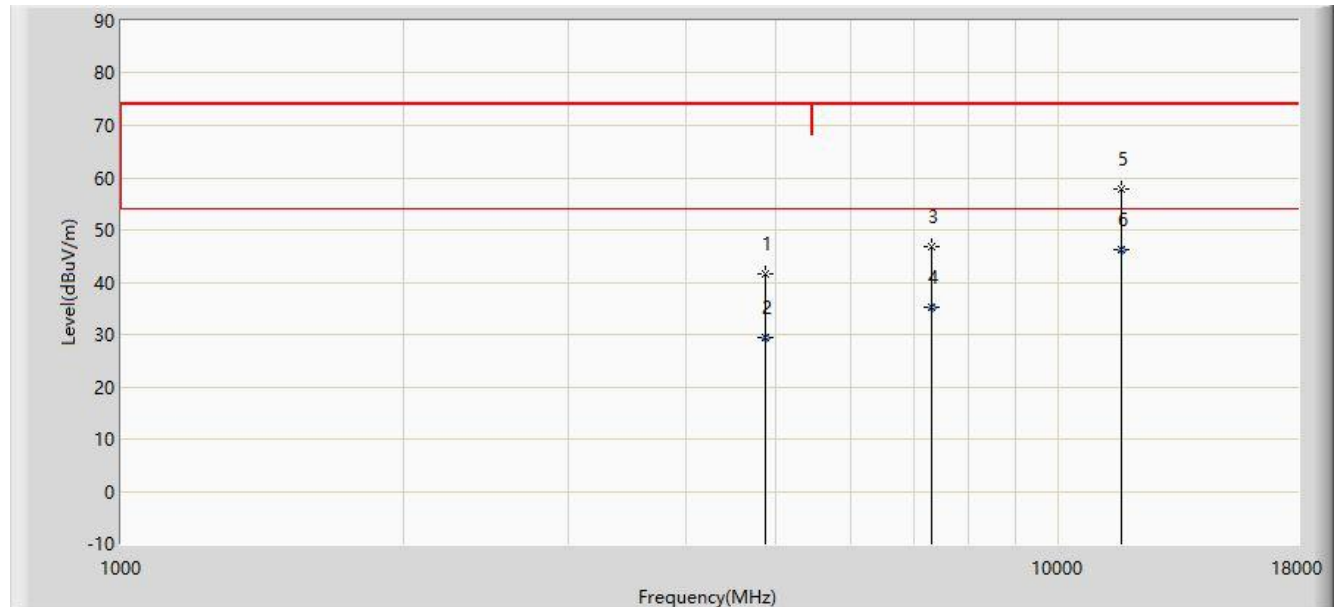
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Note 2: We selected the 2.4GHz and 5GHz worst-case mode of radiated spurious emissions in the DTS and UNII reports.

Note 3: 2.4GHz Wi-Fi 802.11b Channel 2437MHz Power setting = 20.0;

5GHz Wi-Fi 802.11ac-VHT40 Channel 5795MHz Power setting = 18.0.

Test Mode:	2.4GHz Wi-Fi + 5GHz Wi-Fi Transmit	Test Site:	AC1
Test Engineer:	Max Wang	Polarity:	Vertical
Test Item	Co-location	Test Date	2018/12/13
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			4874.000	41.664	35.689	-32.336	74.000	5.976	PK
2			4874.000	29.325	23.350	-24.675	54.000	5.976	AV
3			7311.000	46.876	34.352	-27.124	74.000	12.524	PK
4			7311.000	35.264	22.740	-18.736	54.000	12.524	AV
5			11650.000	57.884	40.270	-16.116	74.000	17.613	PK
6		*	11650.000	46.144	28.530	-7.856	54.000	17.613	AV

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Note 2: We selected the 2.4GHz and 5GHz worst-case mode of radiated spurious emissions in the DTS and UNII reports.

Note 3: 2.4GHz Wi-Fi 802.11b Channel 2437MHz Power setting = 20.0;

5GHz Wi-Fi 802.11ac-VHT20 Channel 5825MHz Power setting = 18.0.

The End