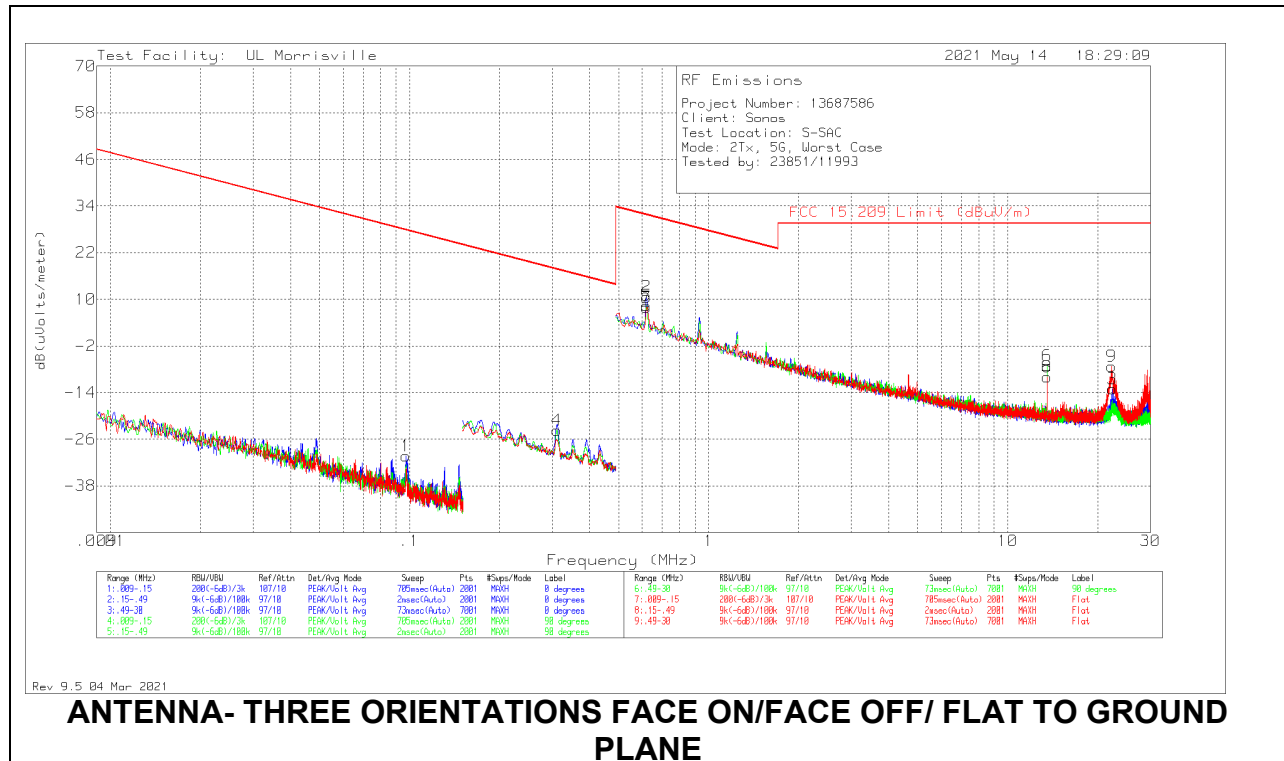


10.2. WORST CASE BELOW 30MHZ

Note for below 30 MHz scans: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.

E-FIELD SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

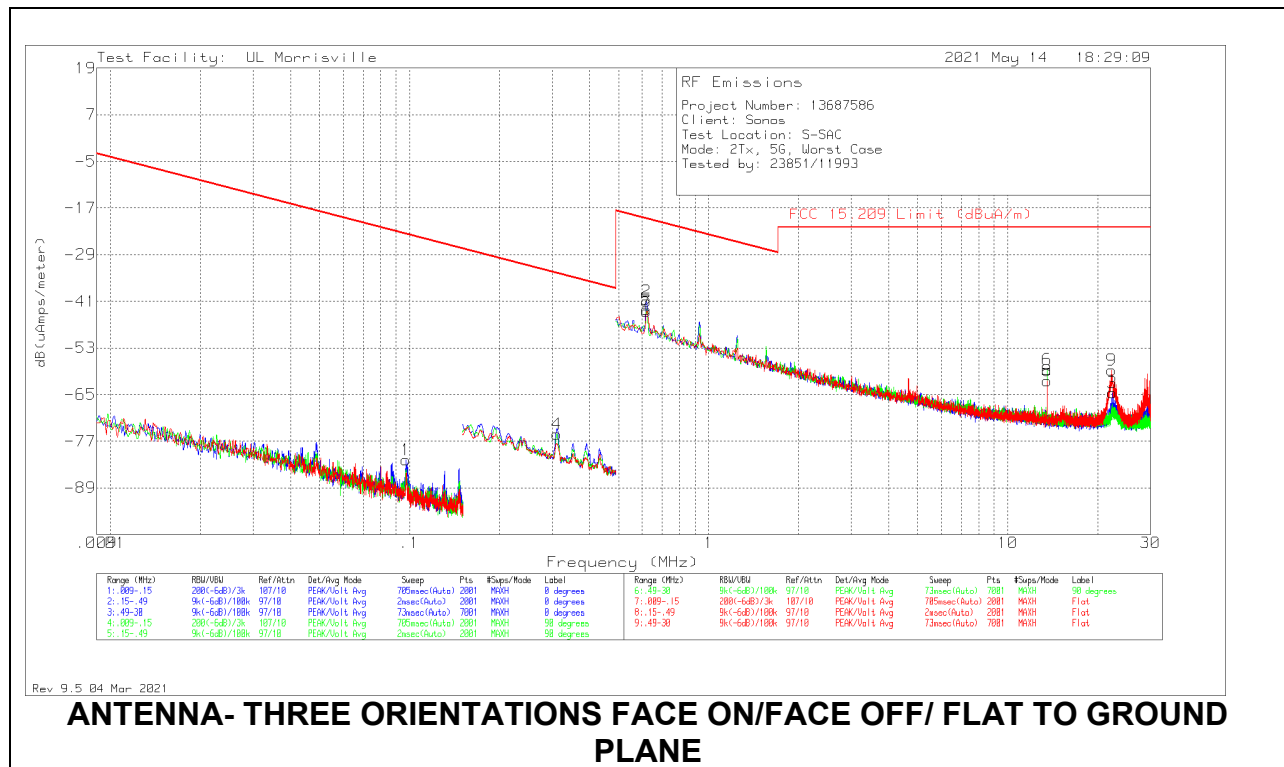


Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 QP/Avg Limit (dBuV/m)	FCC 15.209 Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.0974	38.65	Pk	11	.1	-80	-30.25	27.83	47.83	-58.08	0-360	On
2	.6207	39.59	Pk	10.8	.2	-40	10.59	31.75	-	-21.16	0-360	On
3	22.33731	16.62	Pk	9.5	.9	-40	-12.98	29.54	-	-42.52	0-360	On
4	.31091	45.48	Pk	10.7	.1	-80	-23.72	17.75	37.75	-41.47	0-360	Off
5	.6207	37.36	Pk	10.8	.2	-40	8.36	31.75	-	-23.39	0-360	Off
6	13.5596	21.87	Pk	10.4	.7	-40	-7.03	29.54	-	-36.57	0-360	Off
7	.6207	36.98	Pk	10.8	.2	-40	7.98	31.75	-	-23.77	0-360	Flat
8	13.5596	18.88	Pk	10.4	.7	-40	-10.02	29.54	-	-39.56	0-360	Flat
9	22.2825	22.33	Pk	9.5	.9	-40	-7.27	29.54	-	-36.81	0-360	Flat

Pk - Peak detector

H-FIELD SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

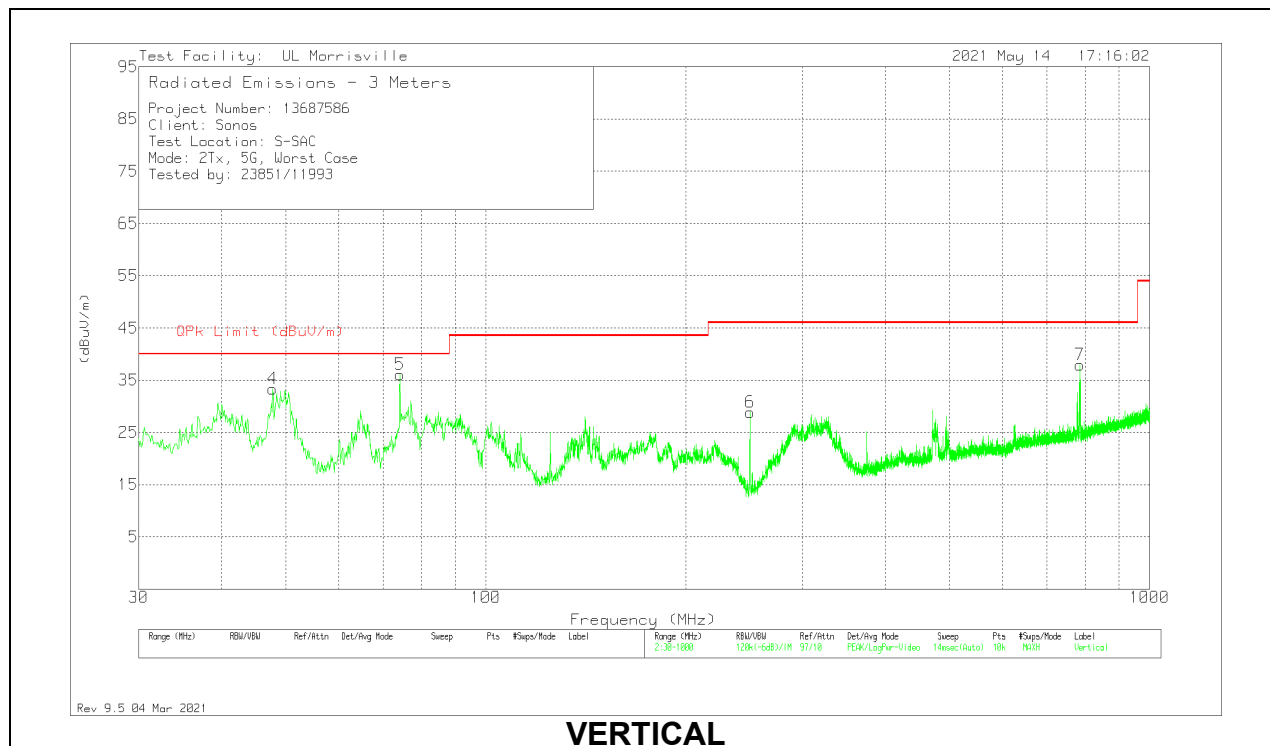
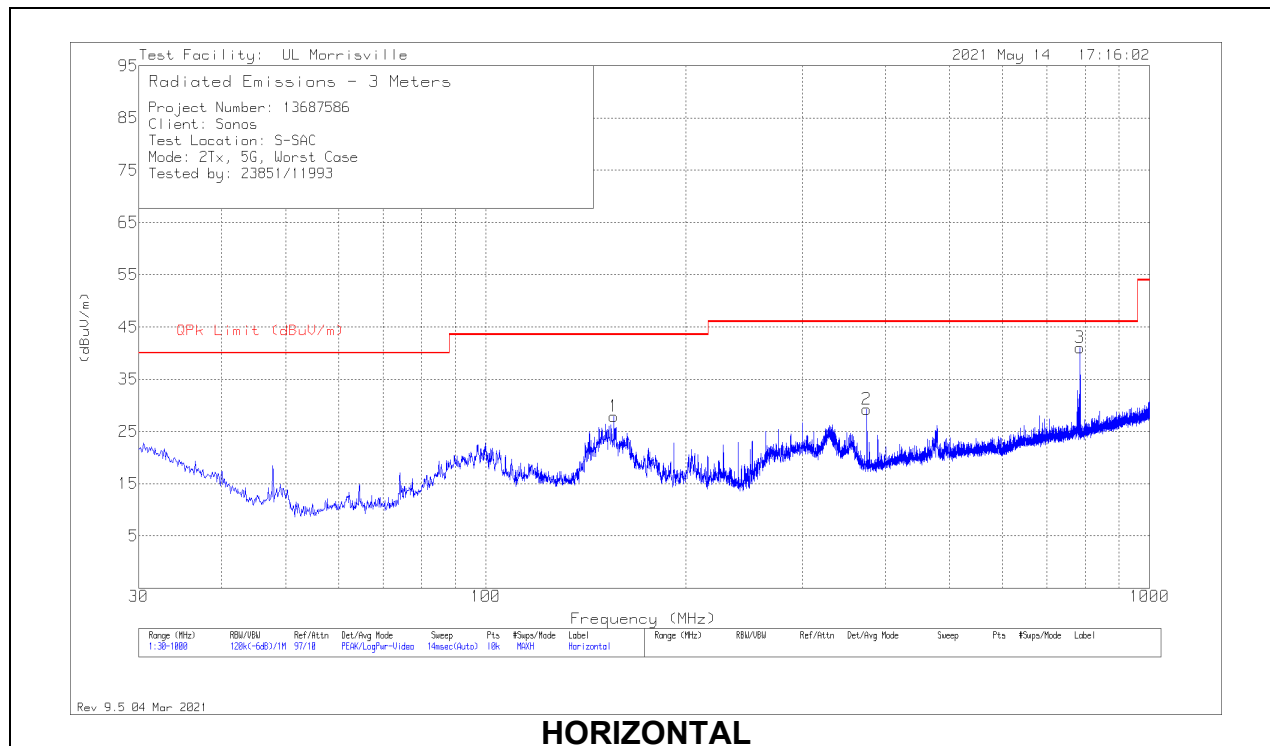


Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	RSS-GEN QP/Avg Limit (dBuA/m)	RSS-GEN Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.0974	38.65	Pk	-40.5	.1	-80	-81.75	-23.67	-3.67	-58.08	0-360	On
2	.6207	39.59	Pk	-40.7	.2	-40	-40.91	-19.75	-	-21.16	0-360	On
3	22.33731	16.62	Pk	-42	.9	-40	-64.48	-21.96	-	-42.52	0-360	On
4	.31091	45.48	Pk	-40.8	.1	-80	-75.22	-33.75	-13.75	-41.47	0-360	Off
5	.6207	37.36	Pk	-40.7	.2	-40	-43.14	-19.75	-	-23.39	0-360	Off
6	13.5596	21.87	Pk	-41.1	.7	-40	-58.53	-21.96	-	-36.57	0-360	Off
7	.6207	36.98	Pk	-40.7	.2	-40	-43.52	-19.75	-	-23.77	0-360	Flat
8	13.5596	18.88	Pk	-41.1	.7	-40	-61.52	-21.96	-	-39.56	0-360	Flat
9	22.2825	22.33	Pk	-42	.9	-40	-58.77	-21.96	-	-36.81	0-360	Flat

Pk - Peak detector

10.3. WORST CASE BELOW 1 GHZ



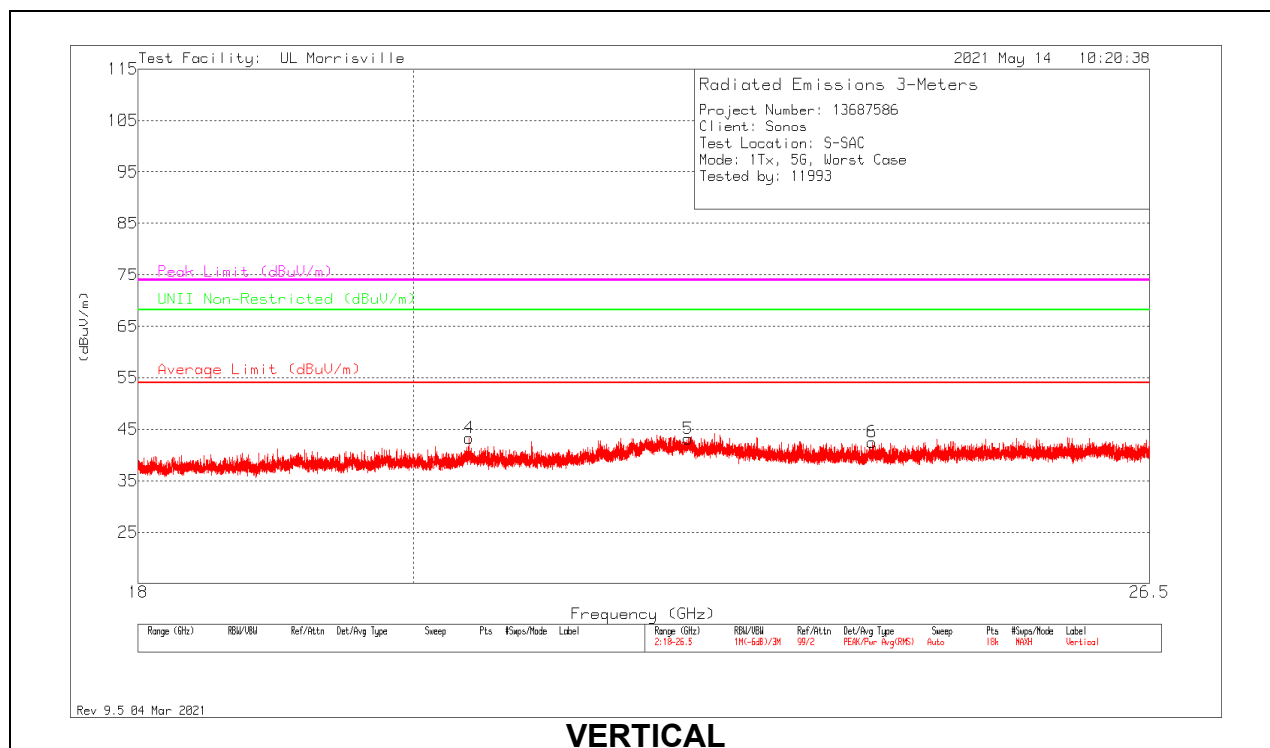
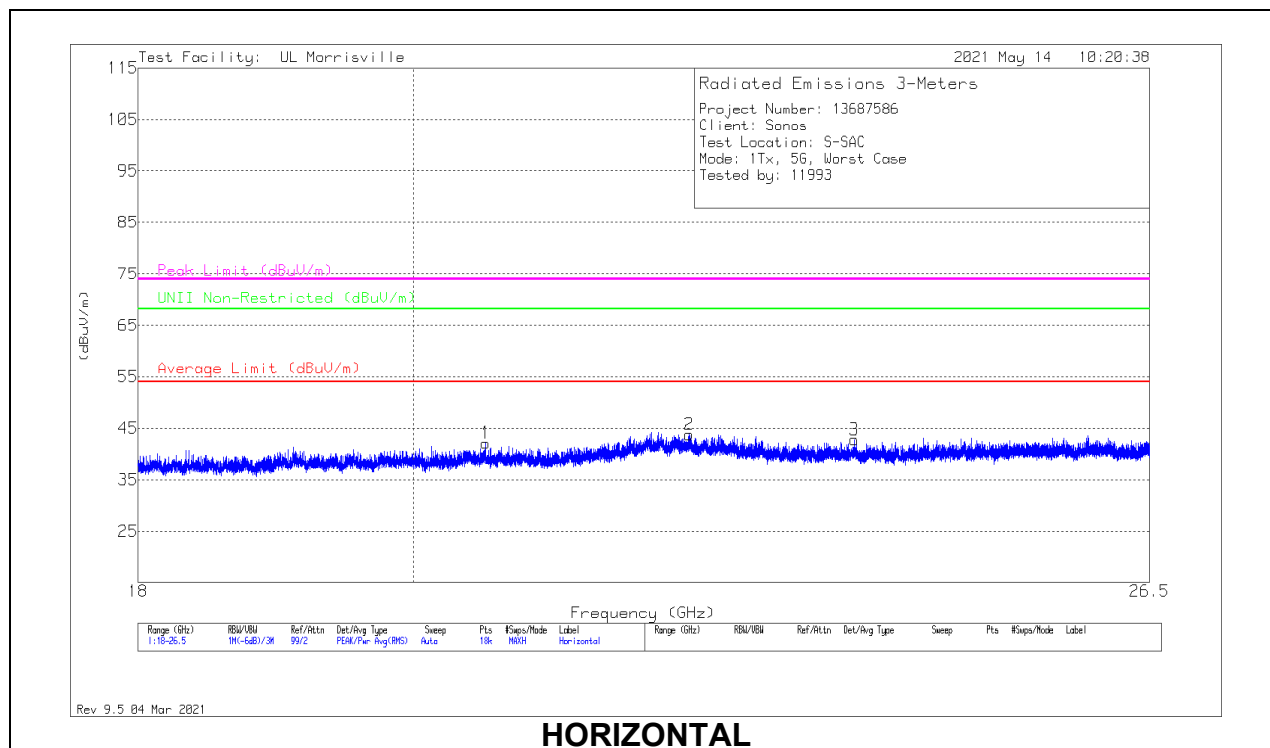
Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	47.751	49.59	Pk	15	-31.3	33.29	40	-6.71	0-360	101	V
5	74.2636	49.06	Qp	14.3	-30.9	32.46	40	-7.54	161	112	V
1	156.003	39.13	Pk	18.7	-30	27.83	43.52	-15.69	0-360	299	H
6	249.996	40.39	Pk	17.6	-29.1	28.89	46.02	-17.13	0-360	199	V
2	375.029	36.5	Pk	21.1	-28.4	29.2	46.02	-16.82	0-360	101	H
7	784.563	37.29	Pk	27.3	-26.7	37.89	46.02	-8.13	0-360	299	V
3	785.0067	18.85	Qp	27.3	-26.7	19.45	46.02	-26.57	58	318	H

Pk - Peak detector

Qp- Quasi-peak detector

10.4. WORST CASE 18-26 GHZ



18 – 26GHz DATA

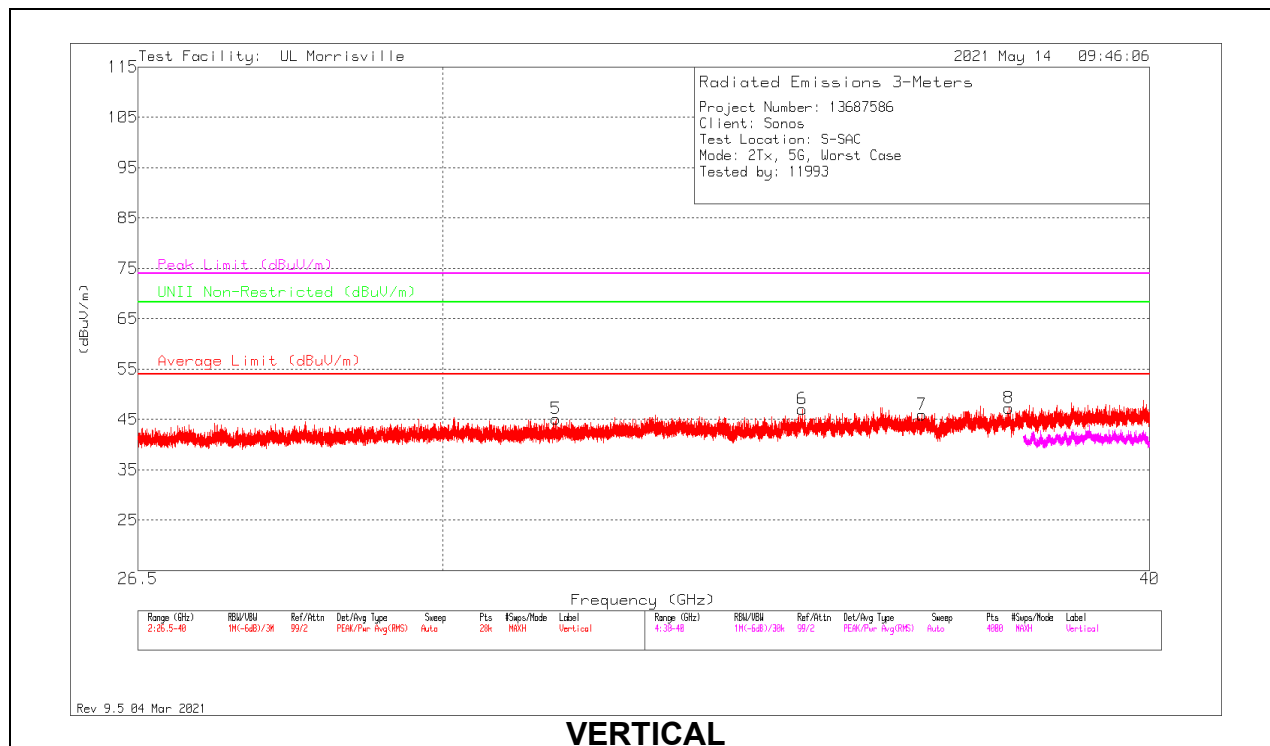
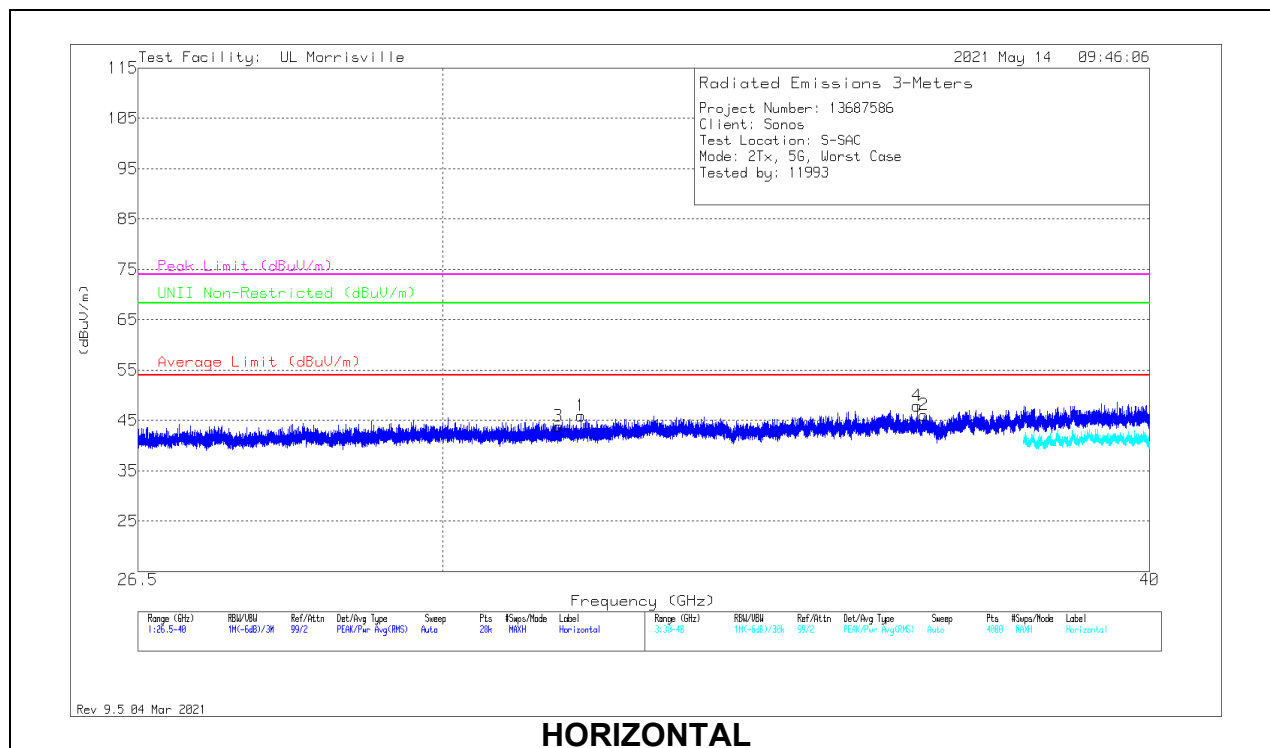
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0063 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 20.55864	46.9	Pk	34	-38.8	42.1	54	-11.9	74	-31.9	-	-	0-360	199	H
2	* ** 22.2219	46.19	Pk	36.6	-39	43.79	54	-10.21	74	-30.21	-	-	0-360	199	H
3	* ** 23.67075	46.26	Pk	34.9	-38.4	42.76	54	-11.24	74	-31.24	-	-	0-360	250	H
4	* ** 20.4283	48	Pk	34	-38.7	43.3	54	-10.7	74	-30.7	-	-	0-360	201	V
5	* ** 22.2134	45.76	Pk	36.7	-39.3	43.16	54	-10.84	74	-30.84	-	-	0-360	150	V
6	* ** 23.83274	46.47	Pk	34.8	-38.8	42.47	54	-11.53	74	-31.53	-	-	0-360	299	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.5. WORST CASE 26-40 GHZ



26 – 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0061 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 31.73385	44.36	Pk	36.9	-35.3	45.96	54	-8.04	74	-28.04	-	-	0-360	101	H
2	*** 36.48746	46.43	Pk	38	-38.4	46.03	54	-7.97	74	-27.97	-	-	0-360	101	H
3	*** 31.44359	42.44	Pk	36.9	-35.5	43.84	54	-10.16	74	-30.16	-	-	0-360	149	H
5	*** 31.41128	43.88	Pk	36.8	-35.6	45.08	54	-8.92	74	-28.92	-	-	0-360	300	V
7	*** 36.45757	46.46	Pk	38	-38.5	45.96	54	-8.04	74	-28.04	-	-	0-360	201	V
6	34.72661	46.4	Pk	37.6	-37	47	54	-	-	-	68.2	-21.2	0-360	101	V
4	36.38862	47.97	Pk	38.1	-38.2	47.87	54	-	-	-	68.2	-20.33	0-360	200	H
8	37.76953	46.63	Pk	38.2	-37.6	47.23	54	-	-	-	68.2	-20.97	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

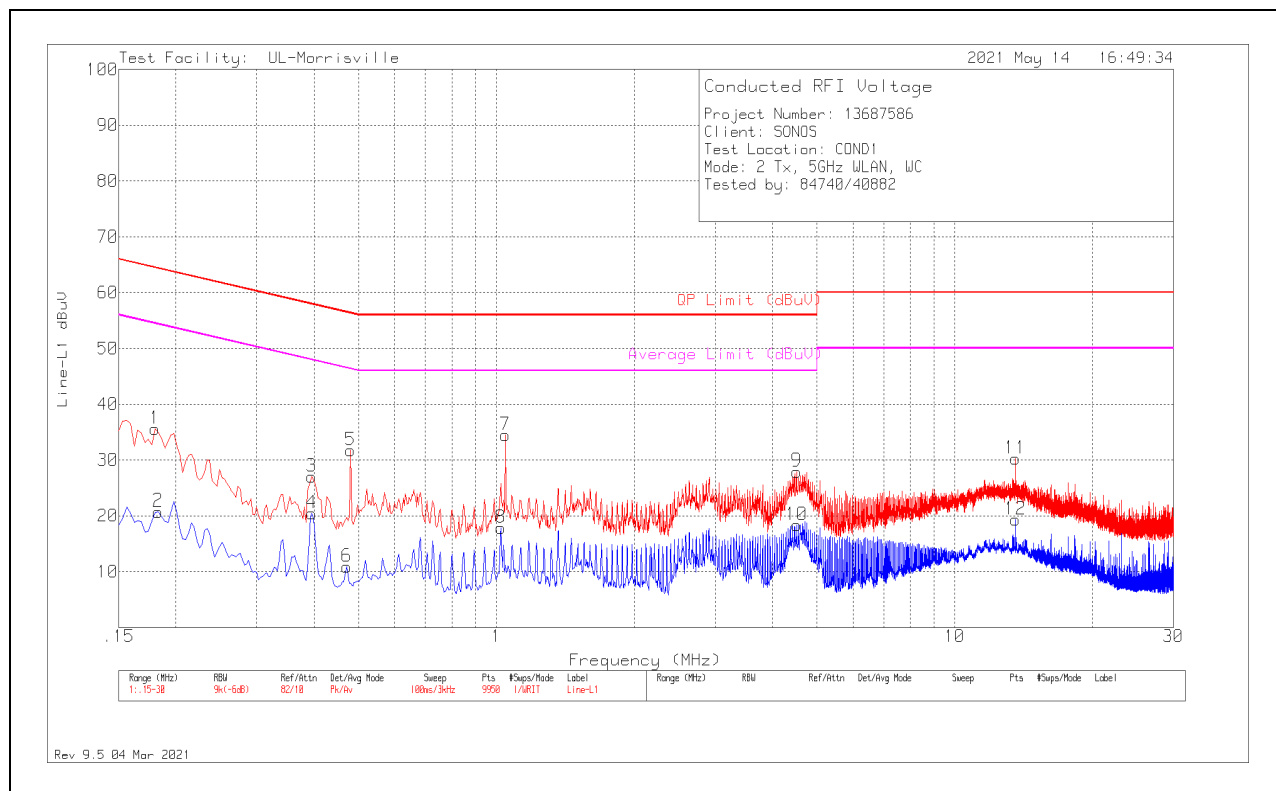
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1.1. AC Power Line Norm

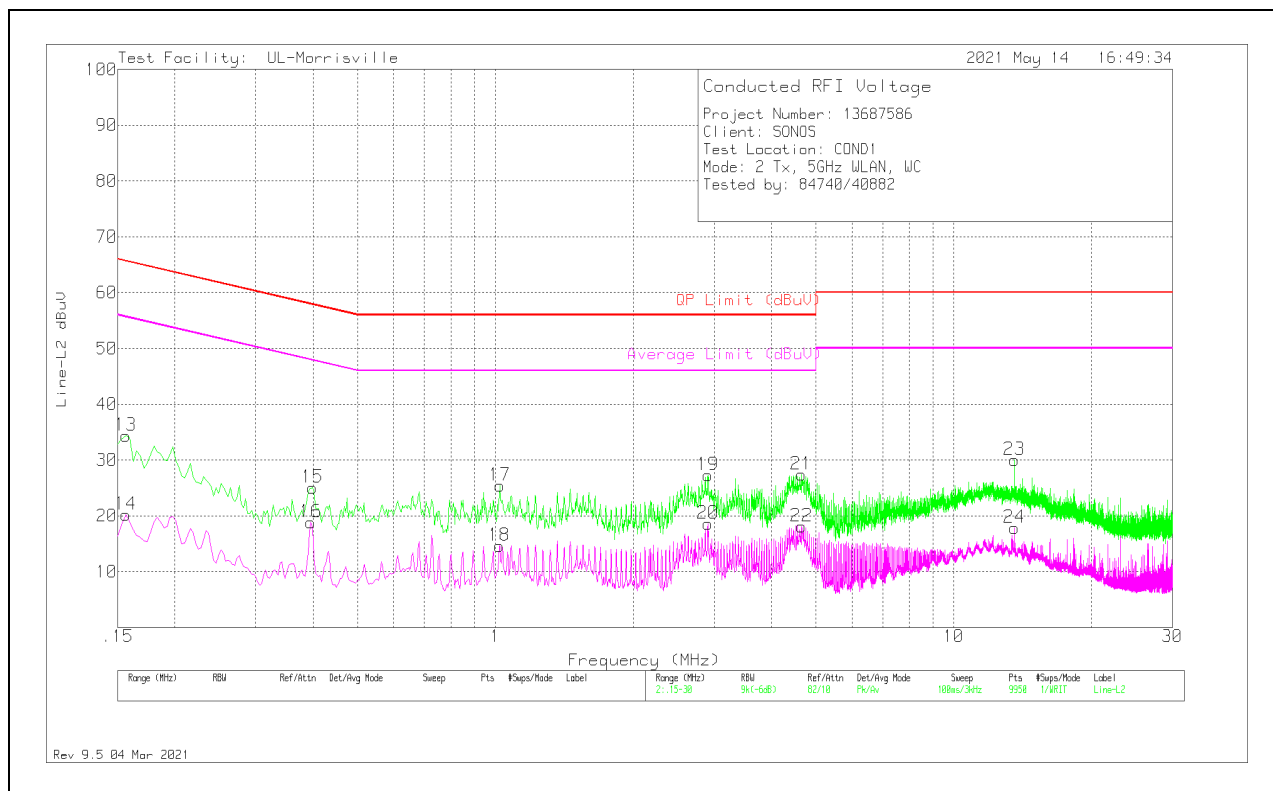
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.18	25.55	Pk	.2	9.8	35.55	64.49	-28.94	-	-
2	.183	10.76	Av	.2	9.8	20.76	-	-	54.35	-33.59
3	.396	17.16	Pk	.1	9.8	27.06	57.94	-30.88	-	-
4	.396	10.5	Av	.1	9.8	20.4	-	-	47.94	-27.54
6	.471	.95	Av	.1	9.8	10.85	-	-	46.5	-35.65
5	.48	21.82	Pk	.1	9.8	31.72	56.34	-24.62	-	-
8	1.023	8.02	Av	0	9.8	17.82	-	-	46	-28.18
7	1.047	24.65	Pk	0	9.8	34.45	56	-21.55	-	-
9	4.518	18.06	Pk	0	9.9	27.96	56	-28.04	-	-
10	4.518	8.42	Av	0	9.9	18.32	-	-	46	-27.68
11	13.56	20.07	Pk	.1	10.1	30.27	60	-29.73	-	-
12	13.56	9.15	Av	.1	10.1	19.35	-	-	50	-30.65

Pk – Peak detector
Av – Average detector

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.156	24.35	Pk	.2	9.8	34.35	65.67	-31.32	-	-
14	.156	10.24	Av	.2	9.8	20.24	-	-	55.67	-35.43
16	.396	8.97	Av	.1	9.8	18.87	-	-	47.94	-29.07
15	.399	15.09	Pk	.1	9.8	24.99	57.87	-32.88	-	-
18	1.02	4.86	Av	0	9.8	14.66	-	-	46	-31.34
17	1.023	15.64	Pk	0	9.8	25.44	56	-30.56	-	-
19	2.907	17.43	Pk	0	9.8	27.23	56	-28.77	-	-
20	2.907	8.84	Av	0	9.8	18.64	-	-	46	-27.36
21	4.656	17.4	Pk	.1	9.9	27.4	56	-28.6	-	-
22	4.659	8.1	Av	.1	9.9	18.1	-	-	46	-27.9
24	13.56	7.62	Av	.1	10.1	17.82	-	-	50	-32.18
23	13.563	19.84	Pk	.1	10.1	30.04	60	-29.96	-	-

Pk – Peak detector
Av – Average detector

12. SETUP PHOTOS

Please refer to R13687586-EP1 for setup photos

END OF TEST REPORT