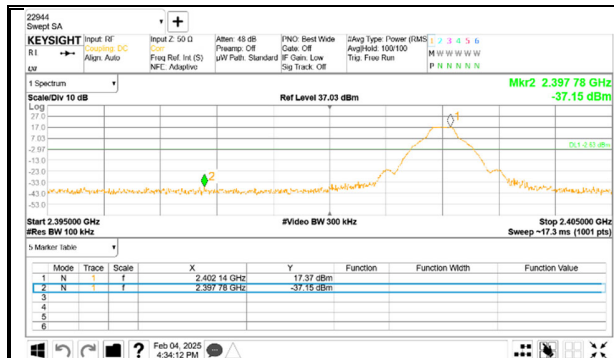
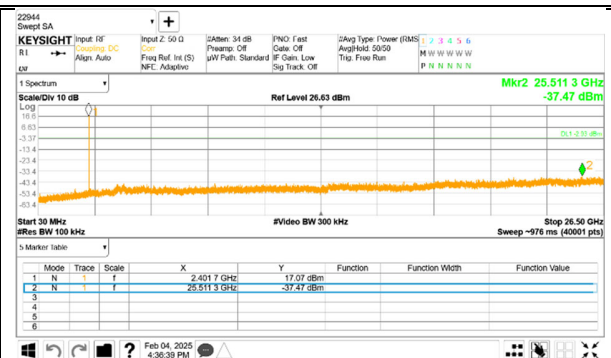


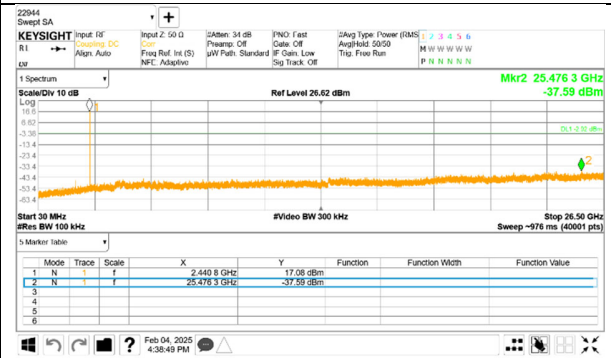
SPURIOUS EMISSIONS, NON-HOPPING – ANT2



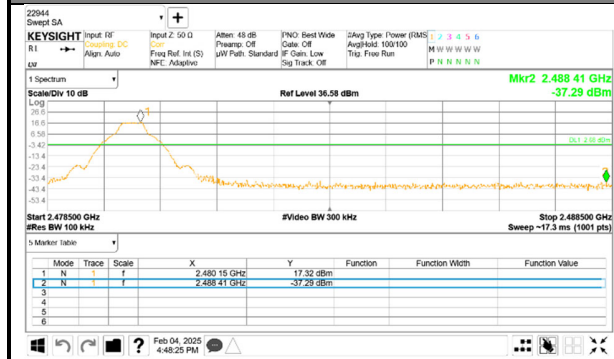
0 CHANNEL BANDEDGE



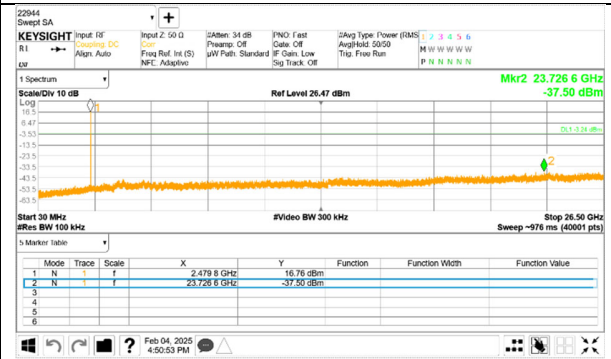
OUT-OF-BAND 0 CHANNEL



OUT-OF-BAND 39 CHANNEL

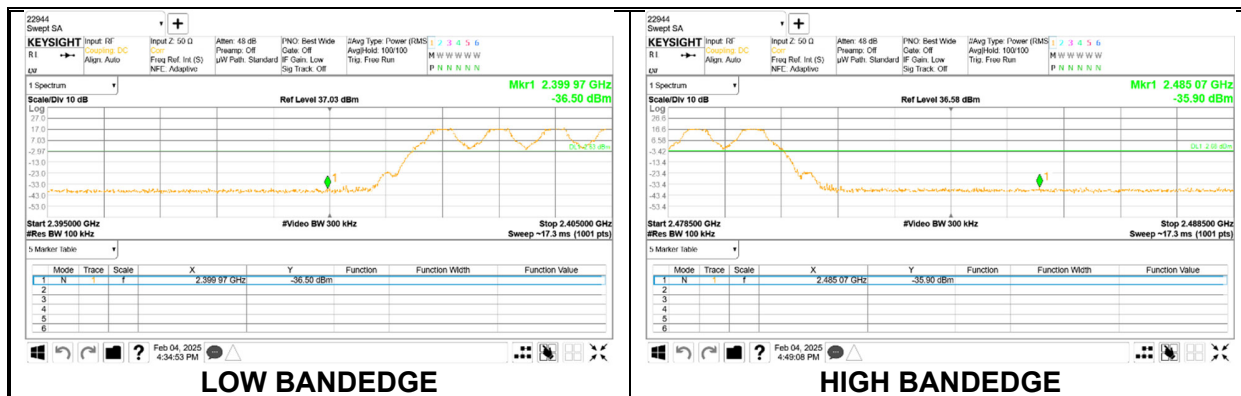


78 CHANNEL BANDEDGE



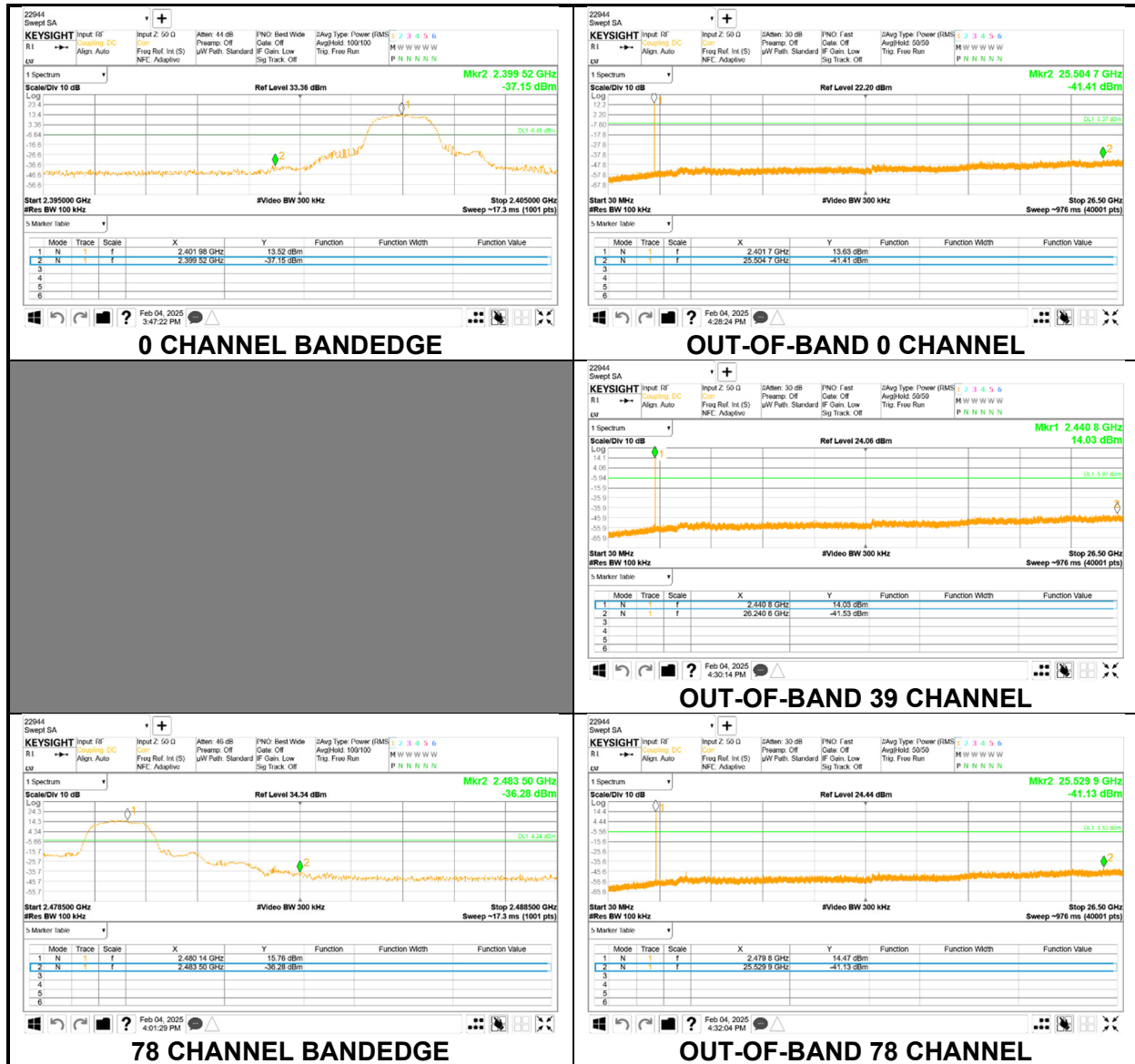
OUT-OF-BAND 78 CHANNEL

SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON – ANT2

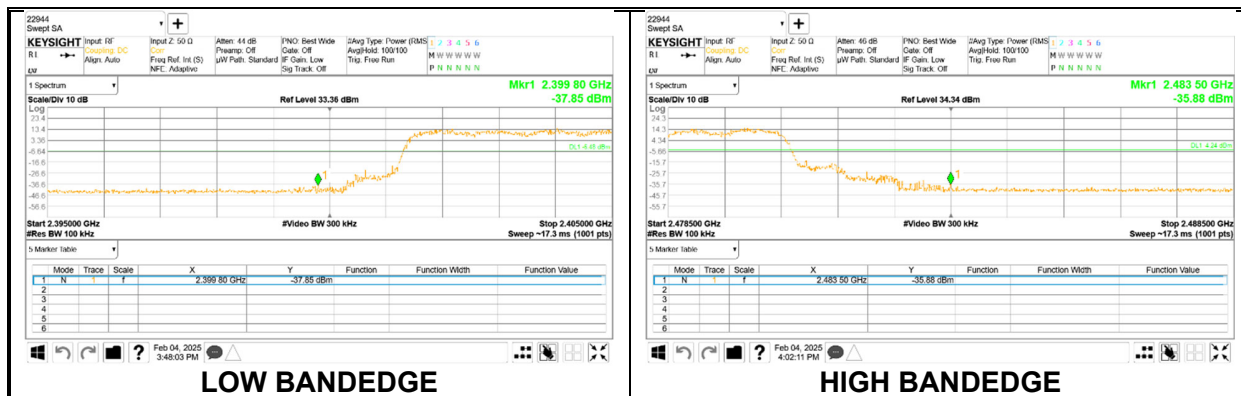


9.8.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

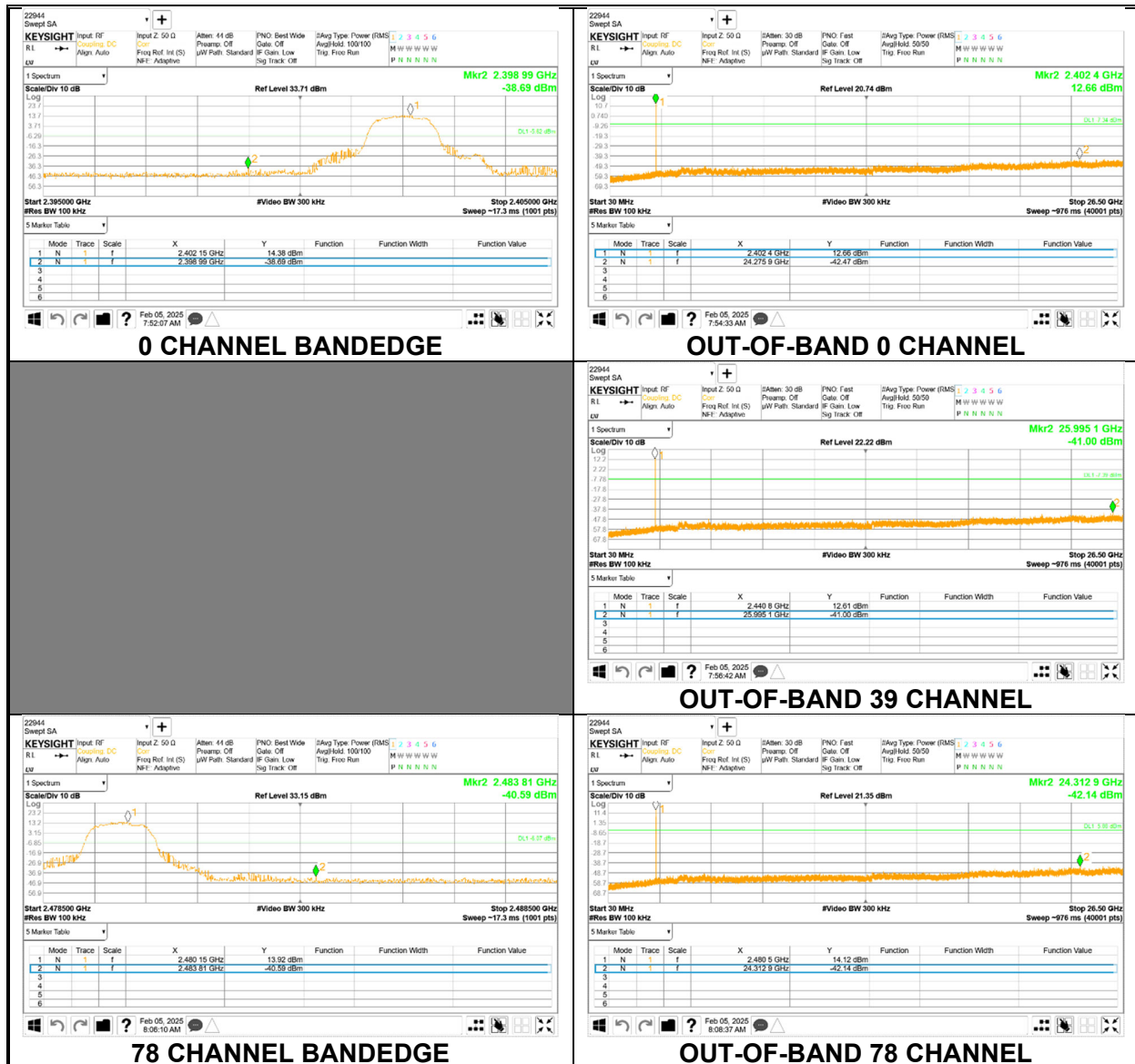
SPURIOUS EMISSIONS, NON-HOPPING – ANT1



SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON – ANT1



SPURIOUS EMISSIONS, NON-HOPPING – ANT2



[illegible]

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.17	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	167.72 ~ 173.2	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	240 ~ 285	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	322 ~ 335.4	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	399.90 ~ 410	3345.8 ~ 3358		
		608 ~ 614	3600 ~ 4400		
		960 ~ 1240			

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements. (Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.)

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1/T (on time) for average measurement.

$GFSK = 1/T = 1 / 0.00288s = 0.35 \text{ kHz}$.

The minimum VBW was 347Hz, but test receiver(ESU40) couldn't set value 347Hz. Due to this reason, testing VBW was set to 500Hz(Worst cases).

The spectrum from 1GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

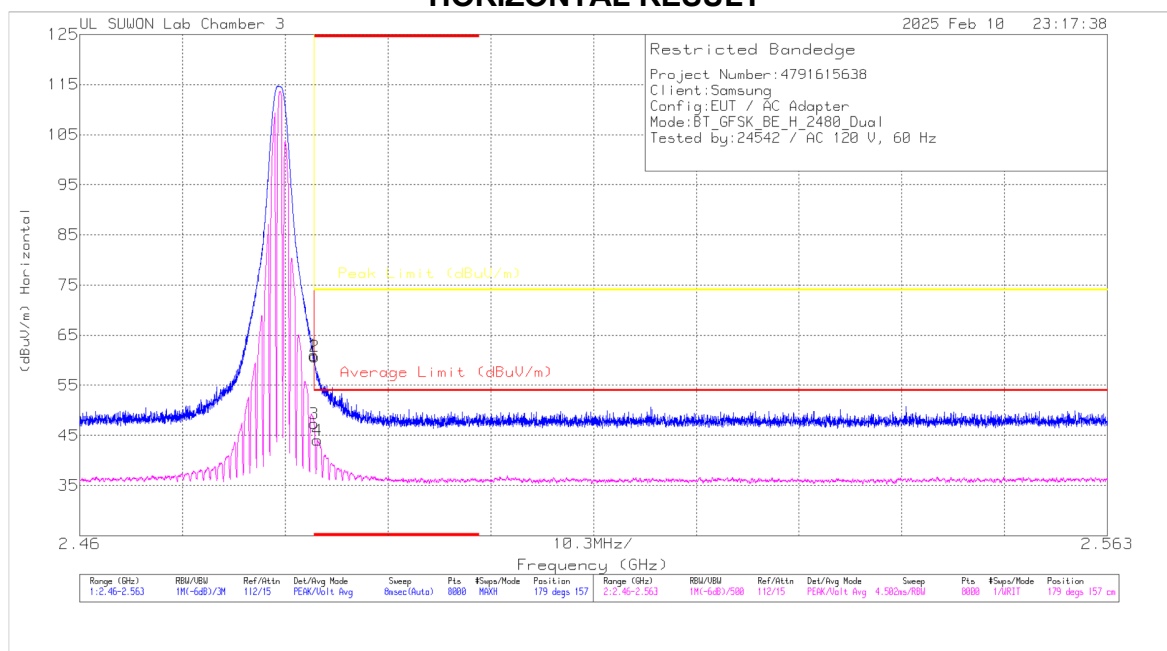
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BLUETOOTH BASIC DATA RATE GFSK MODULATION

BANDEDGE (WORST CASE: 78 CHANNEL, Dual)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	10dB Path Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	53.49	Pk	32.4	-24.9	60.99	-	-	74	-13.01	179	157	H
2	* 2.48354	53.26	Pk	32.4	-24.9	60.76	-	-	74	-13.24	179	157	H
3	* 2.4835	39.83	VA1T	32.4	-24.9	47.33	54	-6.67	-	-	179	157	H
4	* 2.48382	36.55	VA1T	32.4	-24.9	44.05	54	-9.95	-	-	179	157	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEGE TEST DATA

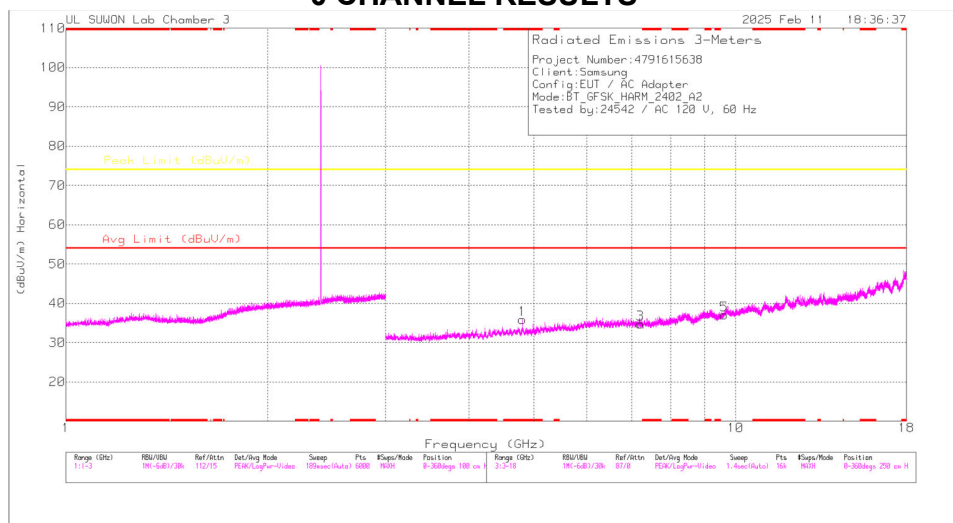
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	40.36	Pk	32.10	-24.90	47.56	-	-	74.00	-26.44	127	104	H
		* 2.36433	42.93	Pk	32.00	-25.10	49.83	-	-	74.00	-24.17	127	104	H
		* 2.39	28.20	VA1T	32.10	-24.90	35.40	54.00	-18.60	-	-	127	104	H
		* 2.38745	29.06	VA1T	32.10	-25.10	36.06	54.00	-17.94	-	-	127	104	H
		* 2.39	40.03	Pk	32.10	-24.90	47.23	-	-	74.00	-26.77	189	302	V
		* 2.38658	42.90	Pk	32.10	-25.00	50.00	-	-	74.00	-24.00	189	302	V
		* 2.39	29.56	VA1T	32.10	-24.90	36.76	54.00	-17.24	-	-	189	302	V
2480	ANT1	* 2.32808	30.14	VA1T	31.90	-25.00	37.04	54.00	-16.96	-	-	189	302	V
		* 2.4835	52.81	Pk	32.40	-24.90	60.31	-	-	74.00	-13.69	129	157	H
		* 2.48355	52.30	Pk	32.40	-24.90	59.80	-	-	74.00	-14.20	129	157	H
		* 2.4835	39.49	VA1T	32.40	-24.90	46.99	54.00	-7.01	-	-	129	157	H
		* 2.48363	38.70	VA1T	32.40	-24.90	46.20	54.00	-7.80	-	-	129	157	H
		* 2.4835	49.09	Pk	32.40	-24.90	56.59	-	-	74.00	-17.41	189	282	V
		* 2.48351	50.51	Pk	32.40	-24.90	58.01	-	-	74.00	-15.99	189	282	V
2402	ANT2	* 2.4835	37.41	VA1T	32.40	-24.90	44.91	54.00	-9.09	-	-	189	282	V
		* 2.48353	37.30	VA1T	32.40	-24.90	44.80	54.00	-9.20	-	-	189	282	V
		* 2.39	40.75	Pk	32.10	-24.90	47.95	-	-	74.00	-26.05	26	388	H
		* 2.37007	42.87	Pk	32.00	-25.00	49.87	-	-	74.00	-24.13	26	388	H
		* 2.39	28.16	VA1T	32.10	-24.90	35.36	54.00	-18.64	-	-	26	388	H
		* 2.37508	28.75	VA1T	32.10	-25.00	35.85	54.00	-18.15	-	-	26	388	H
		* 2.39	40.34	Pk	32.10	-24.90	47.54	-	-	74.00	-26.46	90	386	V
2480	ANT2	* 2.38149	42.65	Pk	32.10	-25.00	49.75	-	-	74.00	-24.25	90	386	V
		* 2.39	28.35	VA1T	32.10	-24.90	35.55	54.00	-18.45	-	-	90	386	V
		* 2.38992	28.75	VA1T	32.10	-24.90	35.95	54.00	-18.05	-	-	90	386	V
		* 2.4835	45.16	Pk	32.40	-24.90	52.66	-	-	74.00	-21.34	39	361	H
		* 2.48354	47.35	Pk	32.40	-24.90	54.85	-	-	74.00	-19.15	39	361	H
		* 2.4835	33.04	VA1T	32.40	-24.90	40.54	54.00	-13.46	-	-	39	361	H
		* 2.48359	33.83	VA1T	32.40	-24.90	41.33	54.00	-12.67	-	-	39	361	H
2402	Dual	* 2.4835	52.64	Pk	32.40	-24.90	60.14	-	-	74.00	-13.86	95	364	V
		* 2.48351	52.94	Pk	32.40	-24.90	60.44	-	-	74.00	-13.56	95	364	V
		* 2.4835	35.18	VA1T	32.40	-24.90	42.68	54.00	-11.32	-	-	95	364	V
		* 2.48364	37.47	VA1T	32.40	-24.90	44.97	54.00	-9.03	-	-	95	364	V
		* 2.39	41.73	Pk	32.10	-24.90	48.93	-	-	74.00	-25.07	165	127	H
		* 2.38807	42.98	Pk	32.10	-25.10	49.98	-	-	74.00	-24.02	165	127	H
		* 2.39	28.17	VA1T	32.10	-24.90	35.37	54.00	-18.63	-	-	165	127	H
2480	Dual	* 2.38938	28.86	VA1T	32.10	-25.00	35.96	54.00	-18.04	-	-	165	127	H
		* 2.39	40.42	Pk	32.10	-24.90	47.62	-	-	74.00	-26.38	189	303	V
		* 2.37415	43.70	Pk	32.00	-25.00	50.70	-	-	74.00	-23.30	189	303	V
		* 2.39	28.23	VA1T	32.10	-24.90	35.43	54.00	-18.57	-	-	189	303	V
		* 2.38809	28.70	VA1T	32.10	-25.10	35.70	54.00	-18.30	-	-	189	303	V
		* 2.4835	53.49	Pk	32.40	-24.90	60.99	-	-	74.00	-13.01	179	157	H
		* 2.48354	53.26	Pk	32.40	-24.90	60.76	-	-	74.00	-13.24	179	157	H
2402	Dual	* 2.4835	39.83	VA1T	32.40	-24.90	47.33	54.00	-6.67	-	-	179	157	H
		* 2.48382	36.55	VA1T	32.40	-24.90	44.05	54.00	-9.95	-	-	179	157	H
		* 2.4835	51.29	Pk	32.40	-24.90	58.79	-	-	74.00	-15.21	209	400	V
		* 2.48354	51.47	Pk	32.40	-24.90	58.97	-	-	74.00	-15.03	209	400	V
		* 2.4835	38.61	VA1T	32.40	-24.90	46.11	54.00	-7.89	-	-	209	400	V
		* 2.48367	37.56	VA1T	32.40	-24.90	45.06	54.00	-8.94	-	-	209	400	V

Note1. Pk - Peak detector, VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

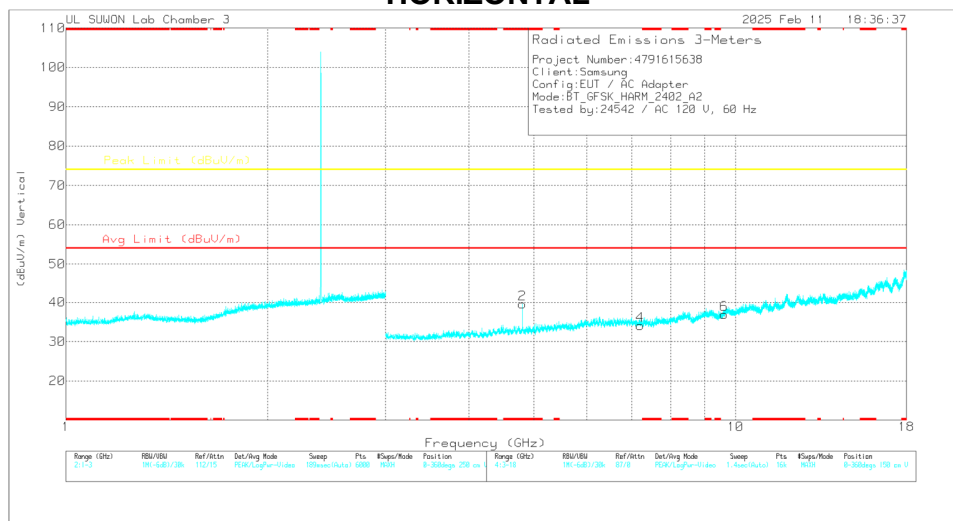
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE – ANT2)

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	3GHz_HP_Pat h Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 4.80433	42.66	PKFH	34.3	-29.8	47.16	-	-	74	-26.84	167	400	H
* 4.80403	36.83	VA1T	34.3	-29.8	41.33	54	-12.67	-	-	167	400	H
* 4.8037	41.24	PKFH	34.3	-29.8	45.74	-	-	74	-28.26	303	336	V
* 4.80402	34.67	VA1T	34.3	-29.8	39.17	54	-14.83	-	-	303	336	V
7.20643	33.75	PKFH	35.8	-25.7	43.85	-	-	74	-30.15	0	100	H
7.20529	32.77	PKFH	35.8	-25.7	42.87	-	-	74	-31.13	0	100	V
9.60913	30.45	PKFH	36.7	-21.7	45.45	-	-	74	-28.55	0	100	H
9.60775	31.01	PKFH	36.7	-21.7	46.01	-	-	74	-27.99	0	100	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 4.80403	38.76	PKFH	34.30	-29.80	43.26	-	-	74.00	-30.74	303	395	H
		* 4.80396	29.86	VA1T	34.30	-29.80	34.36	54.00	-19.64	-	-	303	395	H
		* 4.80376	40.29	PKFH	34.30	-29.80	44.79	-	-	74.00	-29.21	183	312	V
		* 4.80393	31.33	VA1T	34.30	-29.80	35.83	54.00	-18.17	-	-	183	312	V
		7.211	33.24	PKFH	35.80	-25.70	43.34	-	-	74.00	-30.66	0	100	H
		7.208	32.89	PKFH	35.80	-25.70	42.99	-	-	74.00	-31.01	24	101	V
		9.611	30.71	PKFH	36.70	-21.70	45.71	-	-	74.00	-28.29	0	100	H
		9.606	30.61	PKFH	36.70	-21.60	45.71	-	-	74.00	-28.29	0	100	V
2441	ANT1	* 4.88172	39.86	PKFH	34.20	-30.60	43.46	-	-	74.00	-30.54	329	113	H
		* 4.88197	31.70	VA1T	34.20	-30.60	35.30	54.00	-18.70	-	-	329	113	H
		* 4.88235	40.91	PKFH	34.20	-30.60	44.51	-	-	74.00	-29.49	179	345	V
		* 4.88204	34.24	VA1T	34.20	-30.60	37.84	54.00	-16.16	-	-	179	345	V
		* 7.32755	32.64	PKFH	35.80	-25.00	43.44	-	-	74.00	-30.56	145	111	H
		* 7.32347	20.10	VA1T	35.80	-25.00	30.90	54.00	-23.10	-	-	145	111	H
		* 7.3226	33.08	PKFH	35.80	-25.00	43.88	-	-	74.00	-30.12	337	115	V
		* 7.32282	21.05	VA1T	35.80	-25.00	31.85	54.00	-22.15	-	-	337	115	V
2480	ANT1	9.767	30.32	PKFH	36.90	-21.30	45.92	-	-	74.00	-28.08	0	100	H
		9.763	30.76	PKFH	36.90	-21.20	46.46	-	-	74.00	-27.54	0	100	V
		* 4.95971	40.85	PKFH	34.30	-30.40	44.75	-	-	74.00	-29.25	323	104	H
		* 4.96004	35.33	VA1T	34.30	-30.40	39.23	54.00	-14.77	-	-	323	104	H
		* 4.96042	42.67	PKFH	34.30	-30.30	46.67	-	-	74.00	-27.33	178	332	V
		* 4.96007	36.61	VA1T	34.30	-30.40	40.51	54.00	-13.49	-	-	178	332	V
		* 7.44046	32.62	PKFH	35.70	-25.00	43.32	-	-	74.00	-30.68	160	103	H
		* 7.43966	20.79	VA1T	35.70	-25.00	31.49	54.00	-22.51	-	-	160	103	H
2402	ANT2	* 7.43973	33.78	PKFH	35.70	-25.00	44.48	-	-	74.00	-29.52	25	107	V
		* 7.43976	23.12	VA1T	35.70	-25.00	33.82	54.00	-20.18	-	-	25	107	V
		9.920	30.35	PKFH	37.10	-21.30	46.15	-	-	74.00	-27.85	0	100	H
		9.922	29.37	PKFH	37.10	-21.30	45.17	-	-	74.00	-28.83	0	100	V
2402	ANT2	* 4.80433	42.66	PKFH	34.30	-29.80	47.16	-	-	74.00	-26.84	167	400	H
		* 4.80403	36.83	VA1T	34.30	-29.80	41.33	54.00	-12.67	-	-	167	400	H
		* 4.8037	41.24	PKFH	34.30	-29.80	45.74	-	-	74.00	-28.26	303	336	V
		* 4.80402	34.67	VA1T	34.30	-29.80	39.17	54.00	-14.83	-	-	303	336	V
		7.206	33.75	PKFH	35.80	-25.70	43.85	-	-	74.00	-30.15	0	100	H
		7.205	32.77	PKFH	35.80	-25.70	42.87	-	-	74.00	-31.13	0	100	V
		9.609	30.45	PKFH	36.70	-21.70	45.45	-	-	74.00	-28.55	0	100	H
		9.608	31.01	PKFH	36.70	-21.70	46.01	-	-	74.00	-27.99	0	100	V
2441	ANT2	* 4.88179	39.31	PKFH	34.20	-30.60	42.91	-	-	74.00	-31.09	322	102	H
		* 4.88195	30.77	VA1T	34.20	-30.60	34.37	54.00	-19.63	-	-	322	102	H
		* 4.88172	41.97	PKFH	34.20	-30.60	45.57	-	-	74.00	-28.43	263	392	V
		* 4.88205	35.74	VA1T	34.20	-30.60	39.34	54.00	-14.66	-	-	263	392	V
		* 7.32316	32.80	PKFH	35.80	-25.00	43.60	-	-	74.00	-30.40	59	103	H
		* 7.32289	20.08	VA1T	35.80	-25.00	30.88	54.00	-23.12	-	-	59	103	H
		* 7.32287	33.40	PKFH	35.80	-25.00	44.20	-	-	74.00	-29.80	290	100	V
		* 7.32311	22.25	VA1T	35.80	-25.00	33.05	54.00	-20.95	-	-	290	100	V
2480	ANT2	9.767	29.91	PKFH	36.90	-21.30	45.51	-	-	74.00	-28.49	0	100	H
		9.765	31.67	PKFH	36.90	-21.20	47.37	-	-	74.00	-26.63	0	100	V
		* 4.95998	38.38	PKFH	34.30	-30.40	42.28	-	-	74.00	-31.72	30	101	H
		* 4.95989	29.88	VA1T	34.30	-30.40	33.78	54.00	-20.22	-	-	30	101	H
		* 4.95955	40.11	PKFH	34.30	-30.40	44.01	-	-	74.00	-29.99	305	100	V
		* 4.96004	33.57	VA1T	34.30	-30.40	37.47	54.00	-16.53	-	-	305	100	V
		* 7.43975	32.57	PKFH	35.70	-25.00	43.27	-	-	74.00	-30.73	59	103	H
		* 7.43932	20.00	VA1T	35.70	-25.00	30.70	54.00	-23.30	-	-	59	103	H
2480	ANT2	* 7.44035	33.56	PKFH	35.70	-25.00	44.26	-	-	74.00	-29.74	290	100	V
		* 7.4399	22.62	VA1T	35.70	-25.00	33.32	54.00	-20.68	-	-	290	100	V
		9.917	30.45	PKFH	37.10	-21.30	46.25	-	-	74.00	-27.75	0	100	H
		9.917	29.83	PKFH	37.10	-21.30	45.63	-	-	74.00	-28.37	0	100	V

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	DUAL	* 4.80382	41.57	PKFH	34.30	-29.80	46.07	-	-	74.00	-27.93	158	400	H
		* 4.80401	31.16	VA1T	34.30	-29.80	35.66	54.00	-18.34	-	-	158	400	H
		* 4.80401	39.71	PKFH	34.30	-29.80	44.21	-	-	74.00	-29.79	331	304	V
		* 4.80402	26.39	VA1T	34.30	-29.80	30.89	54.00	-23.11	-	-	331	304	V
		7.206	34.67	PKFH	35.80	-25.70	44.77	-	-	74.00	-29.23	30	100	H
		7.206	39.50	PKFH	35.80	-25.70	49.60	-	-	74.00	-24.40	68	103	V
		9.606	32.05	PKFH	36.70	-21.60	47.15	-	-	74.00	-26.85	0	100	H
		9.610	31.35	PKFH	36.70	-21.70	46.35	-	-	74.00	-27.65	0	100	V
2441	DUAL	* 4.88186	38.58	PKFH	34.20	-30.60	42.18	-	-	74.00	-31.82	345	363	H
		* 4.88207	25.12	VA1T	34.20	-30.60	28.72	54.00	-25.28	-	-	345	363	H
		* 4.88188	39.72	PKFH	34.20	-30.60	43.32	-	-	74.00	-30.68	258	345	V
		* 4.88199	28.43	VA1T	34.20	-30.60	32.03	54.00	-21.97	-	-	258	345	V
		* 7.3226	35.18	PKFH	35.80	-25.00	45.98	-	-	74.00	-28.02	29	362	H
		* 7.32295	22.85	VA1T	35.80	-25.00	33.65	54.00	-20.35	-	-	29	362	H
		* 7.32342	39.88	PKFH	35.80	-25.00	50.68	-	-	74.00	-23.32	81	109	V
		* 7.32306	29.68	VA1T	35.80	-25.00	40.48	54.00	-13.52	-	-	81	109	V
		9.763	31.37	PKFH	36.90	-21.20	47.07	-	-	74.00	-26.93	360	100	H
		9.764	30.69	PKFH	36.90	-21.20	46.39	-	-	74.00	-27.61	0	100	V
2480	DUAL	* 4.96021	42.63	PKFH	34.30	-30.40	46.53	-	-	74.00	-27.47	322	116	H
		* 4.95999	32.07	VA1T	34.30	-30.40	35.97	54.00	-18.03	-	-	322	116	H
		* 4.95974	42.24	PKFH	34.30	-30.40	46.14	-	-	74.00	-27.86	258	398	V
		* 4.96002	33.39	VA1T	34.30	-30.40	37.29	54.00	-16.71	-	-	258	398	V
		* 7.4401	35.34	PKFH	35.70	-25.00	46.04	-	-	74.00	-27.96	54	112	H
		* 7.44001	22.53	VA1T	35.70	-25.00	33.23	54.00	-20.77	-	-	54	112	H
		* 7.44008	38.58	PKFH	35.70	-25.00	49.28	-	-	74.00	-24.72	57	100	V
		* 7.44004	28.71	VA1T	35.70	-25.00	39.41	54.00	-14.59	-	-	57	100	V
		9.922	31.21	PKFH	37.10	-21.30	47.01	-	-	74.00	-26.99	0	100	H
		9.920	32.41	PKFH	37.10	-21.30	48.21	-	-	74.00	-25.79	136	103	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

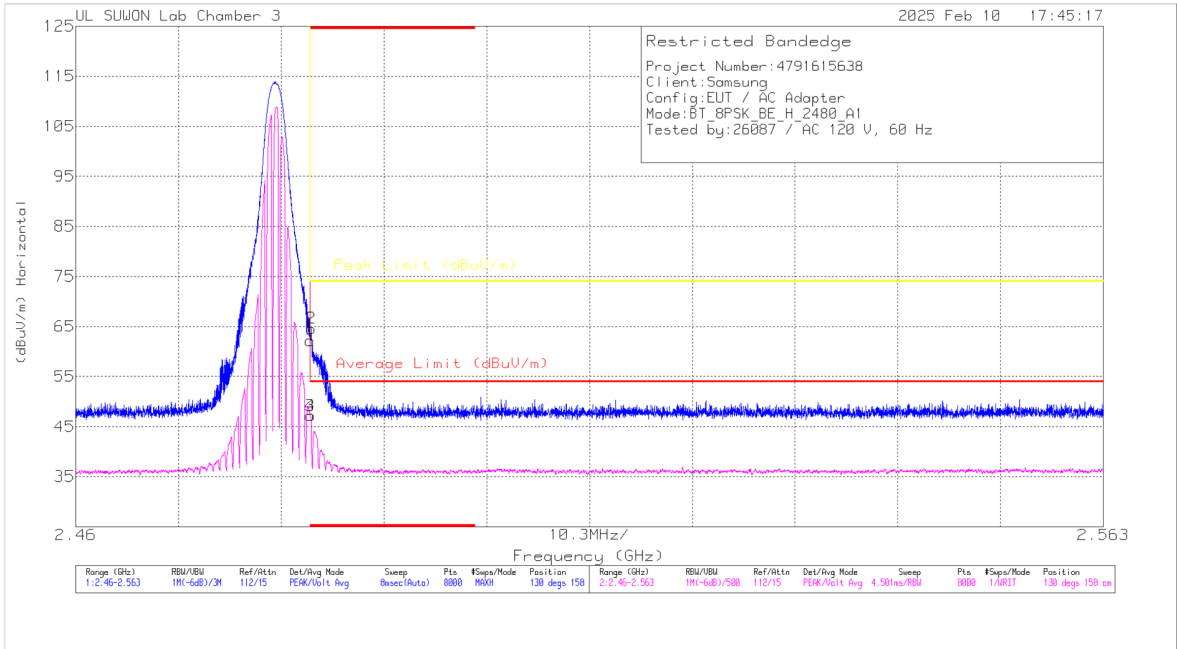
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK
MODULATION

ANT1
BANDEDGE (WORST CASE: 78 CHANNEL, ANT1)

HORIZONTALRESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	10dB Path Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	54.71	Pk	32.4	-24.9	62.21	-	-	74	-11.79	130	158	H
2	* 2.4836	57.15	Pk	32.4	-24.9	64.65	-	-	74	-9.35	130	158	H
3	* 2.4835	39.7	VA1T	32.4	-24.9	47.2	54	-6.8	-	-	130	158	H
4	* 2.48351	39.71	VA1T	32.4	-24.9	47.21	54	-6.79	-	-	130	158	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE TEST DATA

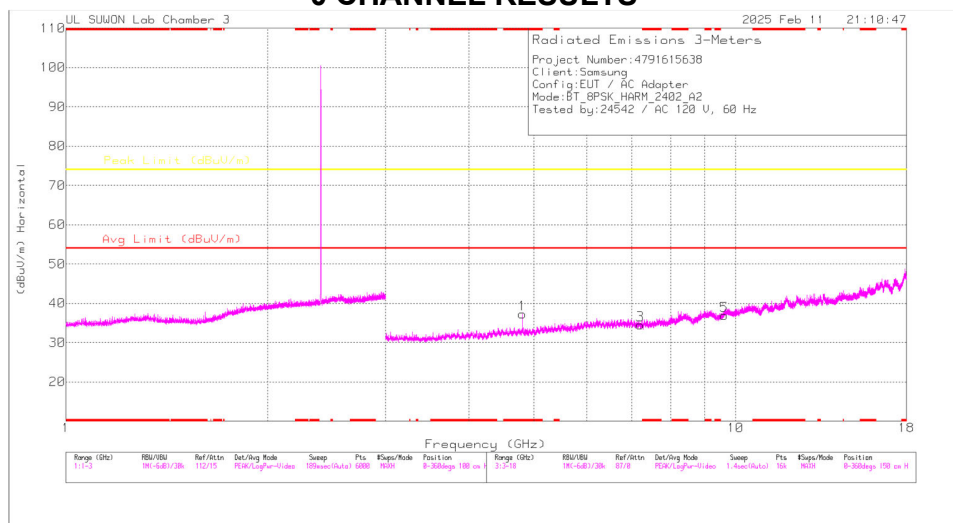
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	40.26	Pk	32.10	-24.90	47.46	-	-	74.00	-26.54	127	105	H
		* 2.36009	43.27	Pk	32.00	-25.10	50.17	-	-	74.00	-23.83	127	105	H
		* 2.39	27.97	VA1T	32.10	-24.90	35.17	54.00	-18.83	-	-	127	105	H
		* 2.38499	28.64	VA1T	32.10	-25.00	35.74	54.00	-18.26	-	-	127	105	H
		* 2.39	39.52	Pk	32.10	-24.90	46.72	-	-	74.00	-27.28	188	302	V
		* 2.38942	42.85	Pk	32.10	-25.00	49.95	-	-	74.00	-24.05	188	302	V
		* 2.39	28.14	VA1T	32.10	-24.90	35.34	54.00	-18.66	-	-	188	302	V
2480	ANT1	* 2.37028	28.69	VA1T	32.00	-25.00	35.69	54.00	-18.31	-	-	188	302	V
		* 2.4835	54.71	Pk	32.40	-24.90	62.21	-	-	74.00	-11.79	130	158	H
		* 2.4836	57.15	Pk	32.40	-24.90	64.65	-	-	74.00	-9.35	130	158	H
		* 2.4835	39.70	VA1T	32.40	-24.90	47.20	54.00	-6.80	-	-	130	158	H
		* 2.48351	39.71	VA1T	32.40	-24.90	47.21	54.00	-6.79	-	-	130	158	H
		* 2.4835	54.56	Pk	32.40	-24.90	62.06	-	-	74.00	-11.94	206	400	V
		* 2.48351	54.69	Pk	32.40	-24.90	62.19	-	-	74.00	-11.81	206	400	V
2402	ANT2	* 2.4835	29.59	VA1T	32.40	-24.90	37.09	54.00	-16.91	-	-	206	400	V
		* 2.48371	36.79	VA1T	32.40	-24.90	44.29	54.00	-9.71	-	-	206	400	V
		* 2.39	40.30	Pk	32.10	-24.90	47.50	-	-	74.00	-26.50	25	387	H
		* 2.31295	43.20	Pk	31.90	-25.00	50.10	-	-	74.00	-23.90	25	387	H
		* 2.39	28.61	VA1T	32.10	-24.90	35.81	54.00	-18.19	-	-	25	387	H
		* 2.38864	29.05	VA1T	32.10	-25.00	36.15	54.00	-17.85	-	-	25	387	H
		* 2.39	40.69	Pk	32.10	-24.90	47.89	-	-	74.00	-26.11	90	384	V
2480	ANT2	* 2.38339	43.21	Pk	32.10	-25.00	50.31	-	-	74.00	-23.69	90	384	V
		* 2.39	28.55	VA1T	32.10	-24.90	35.75	54.00	-18.25	-	-	90	384	V
		* 2.37654	28.85	VA1T	32.10	-25.00	35.95	54.00	-18.05	-	-	90	384	V
		* 2.4835	46.16	Pk	32.40	-24.90	53.66	-	-	74.00	-20.34	177	360	H
		* 2.48367	48.46	Pk	32.40	-24.90	55.96	-	-	74.00	-18.04	177	360	H
		* 2.4835	29.32	VA1T	32.40	-24.90	36.82	54.00	-17.18	-	-	177	360	H
		* 2.48375	32.11	VA1T	32.40	-24.90	39.61	54.00	-14.39	-	-	177	360	H
2402	Dual	* 2.4835	49.68	Pk	32.40	-24.90	57.18	-	-	74.00	-16.82	95	365	V
		* 2.48359	53.21	Pk	32.40	-24.90	60.71	-	-	74.00	-13.29	95	365	V
		* 2.4835	37.15	VA1T	32.40	-24.90	44.65	54.00	-9.35	-	-	95	365	V
		* 2.48356	36.56	VA1T	32.40	-24.90	44.06	54.00	-9.94	-	-	95	365	V
		* 2.39	40.35	Pk	32.10	-24.90	47.55	-	-	74.00	-26.45	165	126	H
		* 2.35261	43.46	Pk	32.00	-25.00	50.46	-	-	74.00	-23.54	165	126	H
		* 2.39	28.29	VA1T	32.10	-24.90	35.49	54.00	-18.51	-	-	165	126	H
2480	Dual	* 2.3671	28.95	VA1T	32.00	-25.00	35.95	54.00	-18.05	-	-	165	126	H
		* 2.39	39.31	Pk	32.10	-24.90	46.51	-	-	74.00	-27.49	189	300	V
		* 2.3154	43.20	Pk	31.90	-25.00	50.10	-	-	74.00	-23.90	189	300	V
		* 2.39	28.50	VA1T	32.10	-24.90	35.70	54.00	-18.30	-	-	189	300	V
		* 2.38114	28.83	VA1T	32.10	-25.00	35.93	54.00	-18.07	-	-	189	300	V
		* 2.4835	55.64	Pk	32.40	-24.90	63.14	-	-	74.00	-10.86	176	157	H
		* 2.48358	55.90	Pk	32.40	-24.90	63.40	-	-	74.00	-10.60	176	157	H
2402	Dual	* 2.4835	39.52	VA1T	32.40	-24.90	47.02	54.00	-6.98	-	-	176	157	H
		* 2.48353	39.52	VA1T	32.40	-24.90	47.02	54.00	-6.98	-	-	176	157	H
		* 2.4835	54.36	Pk	32.40	-24.90	61.86	-	-	74.00	-12.14	209	400	V
		* 2.48363	54.26	Pk	32.40	-24.90	61.76	-	-	74.00	-12.24	209	400	V
		* 2.4835	31.83	VA1T	32.40	-24.90	39.33	54.00	-14.67	-	-	209	400	V
		* 2.48376	31.83	VA1T	32.40	-24.90	45.68	54.00	-8.32	-	-	209	400	V

Note1. Pk - Peak detector, VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

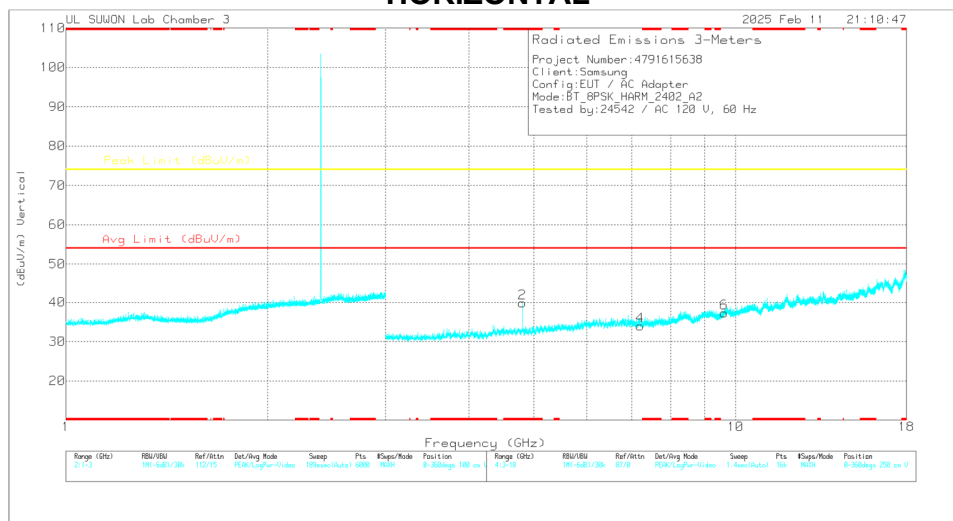
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE – ANT2)

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	3GHz_HP_Pat h Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80374	41.82	PKFH	34.3	-29.8	46.32	-	-	74	-27.68	167	400	H
* 4.80407	36.21	VA1T	34.3	-29.8	40.71	54	-13.29	-	-	167	400	H
* 4.80441	41.23	PKFH	34.3	-29.8	45.73	-	-	74	-28.27	303	336	V
* 4.80411	33.96	VA1T	34.3	-29.8	38.46	54	-15.54	-	-	303	336	V
7.20197	33.68	PKFH	35.8	-25.7	43.78	-	-	74	-30.22	0	100	H
7.20865	32.36	PKFH	35.8	-25.7	42.46	-	-	74	-31.54	0	100	V
9.60991	30.52	PKFH	36.7	-21.7	45.52	-	-	74	-28.48	0	100	H
9.61289	30.84	PKFH	36.7	-21.7	45.84	-	-	74	-28.16	0	100	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 4.80442	37.51	PKFH	34.30	-29.80	42.01	-	-	74.00	-31.99	304	394	H
		* 4.80409	25.61	VA1T	34.30	-29.80	30.11	54.00	-23.89	-	-	304	394	H
		7.202	33.37	PKFH	35.80	-25.70	43.47	-	-	74.00	-30.53	172	108	H
		9.604	29.95	PKFH	36.70	-21.70	44.95	-	-	74.00	-29.05	0	100	H
		* 4.804	37.95	PKFH	34.30	-29.80	42.45	-	-	74.00	-31.55	183	332	V
		* 4.80397	26.99	VA1T	34.30	-29.80	31.49	54.00	-22.51	-	-	183	332	V
		7.209	33.28	PKFH	35.80	-25.70	43.38	-	-	74.00	-30.62	29	105	V
		9.612	30.58	PKFH	36.70	-21.70	45.58	-	-	74.00	-28.42	0	100	V
2441	ANT1	* 4.8824	38.49	PKFH	34.20	-30.60	42.09	-	-	74.00	-31.91	321	111	H
		* 4.88194	27.57	VA1T	34.20	-30.60	31.17	54.00	-22.83	-	-	321	111	H
		* 4.88189	40.44	PKFH	34.20	-30.60	44.04	-	-	74.00	-29.96	179	345	V
		* 4.88201	29.64	VA1T	34.20	-30.60	33.24	54.00	-20.76	-	-	179	345	V
		* 7.32092	32.82	PKFH	35.80	-25.10	43.52	-	-	74.00	-30.48	140	105	H
		* 7.31834	20.19	VA1T	35.80	-25.20	30.79	54.00	-23.21	-	-	140	105	H
		* 7.32518	33.20	PKFH	35.80	-25.00	44.00	-	-	74.00	-30.00	337	115	V
		* 7.32362	20.23	VA1T	35.80	-25.00	31.03	54.00	-22.97	-	-	337	115	V
		9.766	30.19	PKFH	36.90	-21.20	45.89	-	-	74.00	-28.11	0	100	H
		9.769	29.93	PKFH	36.90	-21.30	45.53	-	-	74.00	-28.47	0	100	V
2480	ANT1	* 4.95998	39.95	PKFH	34.30	-30.40	43.85	-	-	74.00	-30.15	323	104	H
		* 4.96017	30.37	VA1T	34.30	-30.40	34.27	54.00	-19.73	-	-	323	104	H
		* 7.43771	32.29	PKFH	35.70	-25.00	42.99	-	-	74.00	-31.01	160	103	H
		* 7.44037	20.22	VA1T	35.70	-25.00	30.92	54.00	-23.08	-	-	160	103	H
		9.918	29.56	PKFH	37.10	-21.30	45.36	-	-	74.00	-28.64	0	100	H
		* 4.96027	40.33	PKFH	34.30	-30.30	44.33	-	-	74.00	-29.67	178	332	V
		* 4.95983	31.51	VA1T	34.30	-30.40	35.41	54.00	-18.59	-	-	178	332	V
		* 7.43937	33.09	PKFH	35.70	-25.00	43.79	-	-	74.00	-30.21	25	107	V
		* 7.43998	21.18	VA1T	35.70	-25.00	31.88	54.00	-22.12	-	-	25	107	V
		9.918	29.79	PKFH	37.10	-21.30	45.59	-	-	74.00	-28.41	0	100	V
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT2	* 4.80374	41.82	PKFH	34.30	-29.80	46.32	-	-	74.00	-27.68	167	400	H
		* 4.80407	36.21	VA1T	34.30	-29.80	40.71	54.00	-13.29	-	-	167	400	H
		* 4.80441	41.23	PKFH	34.30	-29.80	45.73	-	-	74.00	-28.27	303	336	V
		* 4.80411	33.96	VA1T	34.30	-29.80	38.46	54.00	-15.54	-	-	303	336	V
		7.202	33.68	PKFH	35.80	-25.70	43.78	-	-	74.00	-30.22	0	100	H
		7.209	32.36	PKFH	35.80	-25.70	42.46	-	-	74.00	-31.54	0	100	V
		9.610	30.52	PKFH	36.70	-21.70	45.52	-	-	74.00	-28.48	0	100	H
		9.613	30.84	PKFH	36.70	-21.70	45.84	-	-	74.00	-28.16	0	100	V
2441	ANT2	* 4.88159	37.94	PKFH	34.20	-30.60	41.54	-	-	74.00	-32.46	322	102	H
		* 4.88193	27.33	VA1T	34.20	-30.60	30.93	54.00	-23.07	-	-	322	102	H
		* 4.88215	36.87	PKFH	34.20	-30.60	40.47	-	-	74.00	-33.53	263	392	V
		* 4.88211	24.94	VA1T	34.20	-30.60	28.54	54.00	-25.46	-	-	263	392	V
		* 7.319	32.19	PKFH	35.80	-25.20	42.79	-	-	74.00	-31.21	59	103	H
		* 7.31852	20.04	VA1T	35.80	-25.20	30.64	54.00	-23.36	-	-	59	103	H
		* 7.32616	32.26	PKFH	35.80	-25.00	43.06	-	-	74.00	-30.94	290	100	V
		* 7.32098	19.86	VA1T	35.80	-25.10	30.56	54.00	-23.44	-	-	290	100	V
		9.761	30.68	PKFH	36.90	-21.20	46.38	-	-	74.00	-27.62	0	100	H
		9.761	30.42	PKFH	36.90	-21.20	46.12	-	-	74.00	-27.88	0	100	V
2480	ANT2	* 4.9603	38.04	PKFH	34.30	-30.30	42.04	-	-	74.00	-31.96	30	101	H
		* 4.96017	29.07	VA1T	34.30	-30.40	32.97	54.00	-21.03	-	-	30	101	H
		* 4.96045	40.09	PKFH	34.30	-30.30	44.09	-	-	74.00	-29.91	305	100	V
		* 4.96005	33.89	VA1T	34.30	-30.40	37.79	54.00	-16.21	-	-	305	100	V
		* 7.4388	32.61	PKFH	35.70	-25.00	43.31	-	-	74.00	-30.69	59	103	H
		* 7.43973	20.11	VA1T	35.70	-25.00	30.81	54.00	-23.19	-	-	59	103	H
		* 7.44048	33.74	PKFH	35.70	-25.00	44.44	-	-	74.00	-29.56	290	100	V
		* 7.43987	22.34	VA1T	35.70	-25.00	33.04	54.00	-20.96	-	-	290	100	V
		9.923	29.97	PKFH	37.10	-21.40	45.67	-	-	74.00	-28.33	0	100	H
		9.918	30.37	PKFH	37.10	-21.30	46.17	-	-	74.00	-27.83	0	100	V

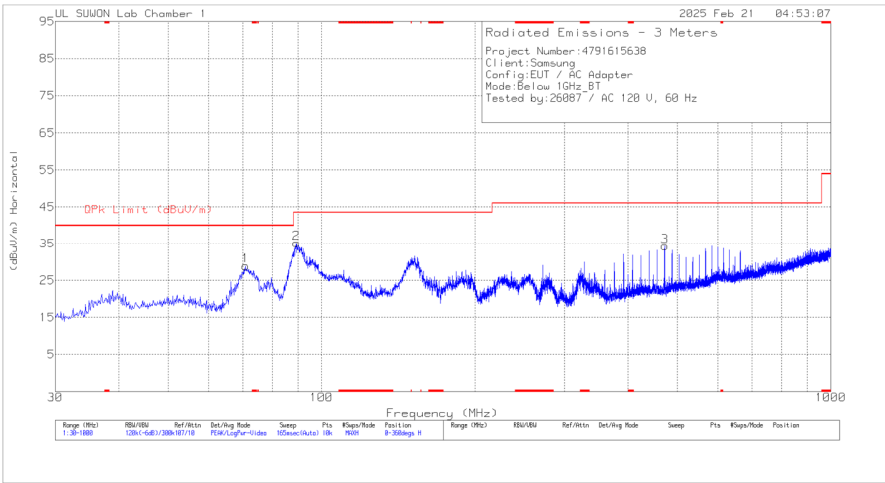
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB(1/m)]	Loss [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	DUAL	* 4.80449	37.52	PKFH	34.30	-29.80	42.02	-	-	74.00	-31.98	322	106	H
		* 4.80392	26.51	VA1T	34.30	-29.80	31.01	54.00	-22.99	-	-	322	106	H
		* 4.8045	38.57	PKFH	34.30	-29.80	43.07	-	-	74.00	-30.93	194	315	V
		* 4.80391	27.15	VA1T	34.30	-29.80	31.65	54.00	-22.35	-	-	194	315	V
		7.206	33.17	PKFH	35.80	-25.70	43.27	-	-	74.00	-30.73	34	100	H
		7.205	37.29	PKFH	35.80	-25.70	47.39	-	-	74.00	-26.61	72	108	V
		9.606	30.58	PKFH	36.70	-21.60	45.68	-	-	74.00	-28.32	0	100	H
2441	DUAL	9.609	31.34	PKFH	36.70	-21.70	46.34	-	-	74.00	-27.66	0	100	V
		* 4.88119	38.57	PKFH	34.20	-30.60	42.17	-	-	74.00	-31.83	319	111	H
		* 4.88212	27.52	VA1T	34.20	-30.60	31.12	54.00	-22.88	-	-	319	111	H
		* 4.88206	39.48	PKFH	34.20	-30.60	43.08	-	-	74.00	-30.92	192	345	V
		* 4.88188	29.19	VA1T	34.20	-30.60	32.79	54.00	-21.21	-	-	192	345	V
		* 7.32447	33.03	PKFH	35.80	-25.00	43.83	-	-	74.00	-30.17	31	104	H
		* 7.32295	20.94	VA1T	35.80	-25.00	31.74	54.00	-22.26	-	-	31	104	H
		* 7.32363	36.42	PKFH	35.80	-25.00	47.22	-	-	74.00	-26.78	48	123	V
		* 7.32309	25.23	VA1T	35.80	-25.00	36.03	54.00	-17.97	-	-	48	123	V
		9.761	31.11	PKFH	36.90	-21.20	46.81	-	-	74.00	-27.19	0	100	H
2480	DUAL	9.762	31.16	PKFH	36.90	-21.20	46.86	-	-	74.00	-27.14	0	100	V
		* 4.95555	37.25	PKFH	34.30	-30.40	41.15	-	-	74.00	-32.85	326	106	H
		* 4.9601	25.31	VA1T	34.30	-30.40	29.21	54.00	-24.79	-	-	326	106	H
		* 4.95941	41.23	PKFH	34.30	-30.40	45.13	-	-	74.00	-28.87	184	330	V
		* 4.95997	32.01	VA1T	34.30	-30.40	35.91	54.00	-18.09	-	-	184	330	V
		* 7.43984	33.48	PKFH	35.70	-25.00	44.18	-	-	74.00	-29.82	52	104	H
		* 7.43996	21.81	VA1T	35.70	-25.00	32.51	54.00	-21.49	-	-	52	104	H
		* 7.43944	37.91	PKFH	35.70	-25.00	48.61	-	-	74.00	-25.39	61	104	V
		* 7.44002	26.53	VA1T	35.70	-25.00	37.23	54.00	-16.77	-	-	61	104	V
		9.925	30.42	PKFH	37.10	-21.40	46.12	-	-	74.00	-27.88	0	100	H
		9.919	30.14	PKFH	37.10	-21.30	45.94	-	-	74.00	-28.06	0	100	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

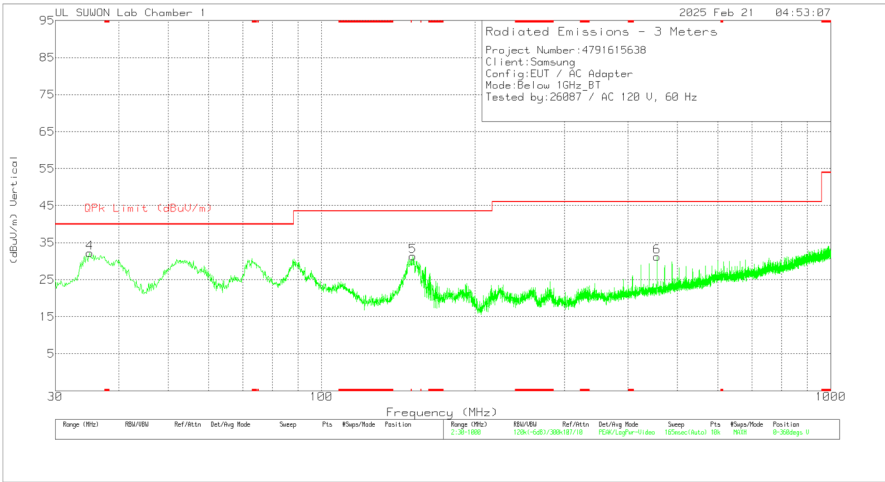
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.2. WORST CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Factor(dB/m)	Below 1G Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	70.934	44.42	Pk	15.1	-30.6	28.92	40	-11.08	0-360	100	H
2	89.267	50.07	Pk	15.5	-30.4	35.17	43.52	-8.35	0-360	200	H
3	471.835	39.78	Pk	22.2	-27.6	34.38	46.02	-11.64	0-360	100	H
4	35.044	46.74	Pk	16.6	-31.1	32.24	40	-7.76	0-360	200	V
5	151.153	47.28	Pk	13.8	-29.7	31.38	43.52	-12.14	0-360	200	V
6	455.733	36.88	Pk	22	-27.7	31.18	46.02	-14.84	0-360	200	V

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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 C63.10:2020.

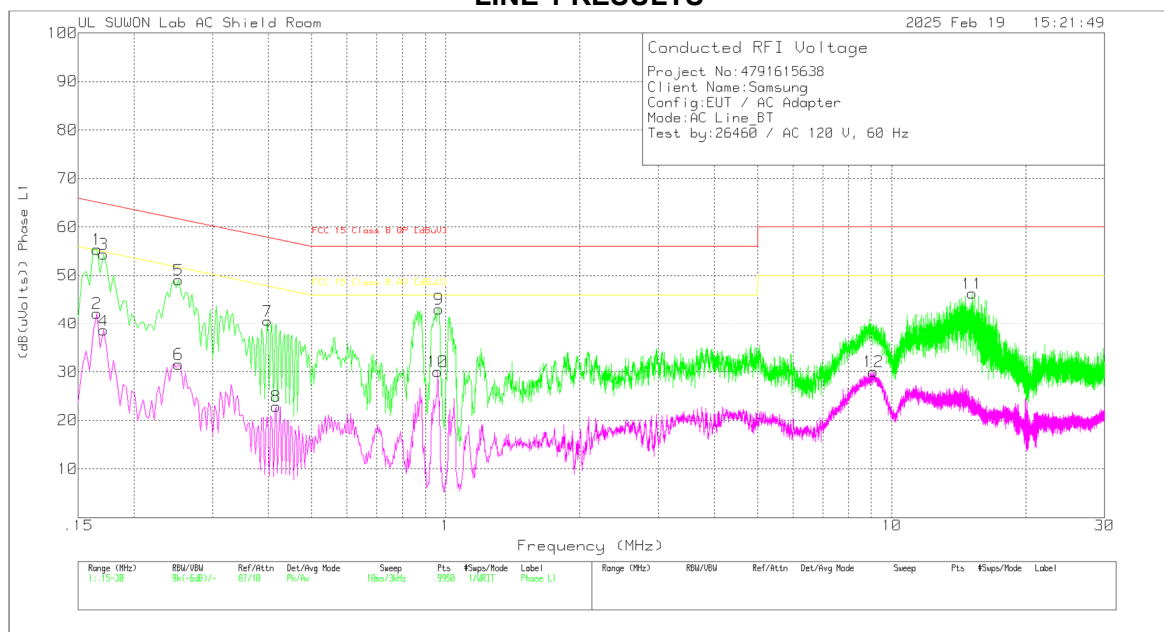
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.165	45.45	Pk	9.9	.1	55.45	65.21	-9.76	-	-
2	.165	32.23	Av	9.9	.1	42.23	-	-	55.21	-12.98
3	.171	44.31	Pk	10	.1	54.41	64.91	-10.5	-	-
4	.171	28.44	Av	10	.1	38.54	-	-	54.91	-16.37
5	.252	39.36	Pk	9.6	.1	49.06	61.69	-12.63	-	-
6	.252	21.86	Av	9.6	.1	31.56	-	-	51.69	-20.13
7	.399	30.69	Pk	9.8	.1	40.59	57.87	-17.28	-	-
8	.417	12.93	Av	9.8	.1	22.83	-	-	47.51	-24.68
9	.966	33.23	Pk	9.8	.1	43.13	56	-12.87	-	-
10	.96	20.08	Av	9.8	.1	29.98	-	-	46	-16.02
11	15.141	35.99	Pk	10	.3	46.29	60	-13.71	-	-
12	9.114	20.04	Av	9.8	.2	30.04	-	-	50	-19.96

Pk - Peak detector

Av - Average detection

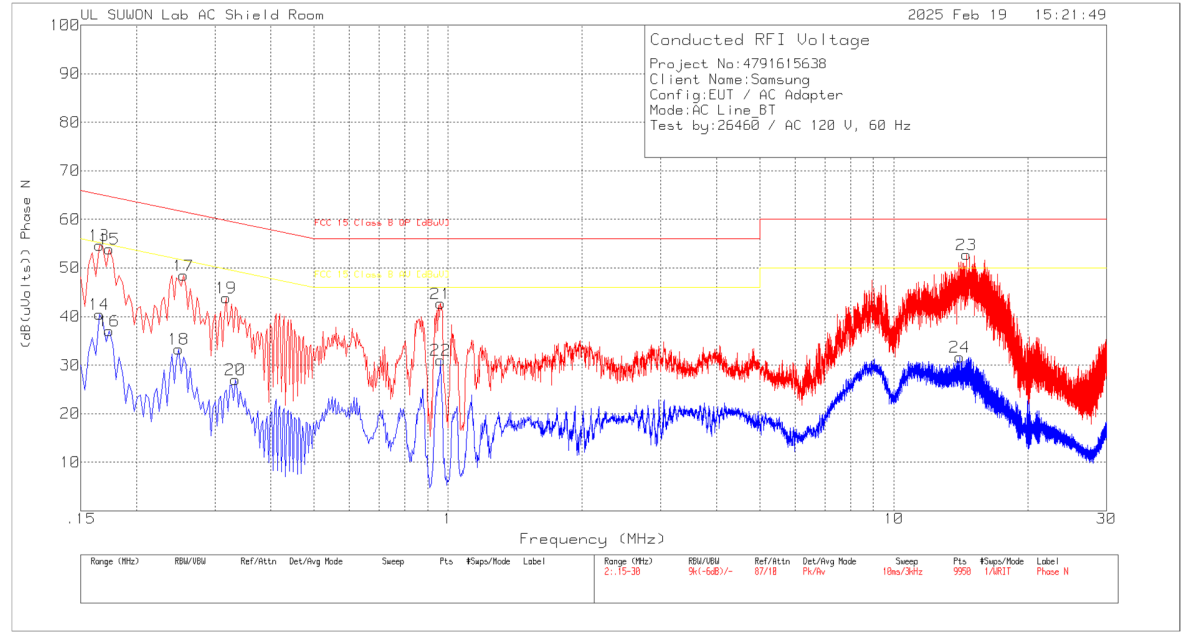
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.16575	34.58	Qp	9.9	.1	44.58	65.17	-20.59	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836 With EX_N [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.165	44.63	Pk	9.9	.1	54.63	65.21	-10.58	-	-
14	.165	30.49	Av	9.9	.1	40.49	-	-	55.21	-14.72
15	.174	43.83	Pk	10	.1	53.93	64.77	-10.84	-	-
16	.174	26.9	Av	10	.1	37	-	-	54.77	-17.77
17	.255	38.73	Pk	9.6	.1	48.43	61.59	-13.16	-	-
18	.249	23.56	Av	9.6	.1	33.26	-	-	51.79	-18.53
19	.318	34.02	Pk	9.7	.1	43.82	59.76	-15.94	-	-
20	.333	17.23	Av	9.7	.1	27.03	-	-	49.38	-22.35
21	.963	32.75	Pk	9.8	.1	42.65	56	-13.35	-	-
22	.963	21.16	Av	9.8	.1	31.06	-	-	46	-14.94
23	14.529	42.31	Pk	10.1	.3	52.71	60	-7.29	-	-
24	14.064	21.39	Av	10	.3	31.69	-	-	50	-18.31

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836 With EX_N [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
14.5283	29.45	Qp	10.1	.3	39.85	60	-20.15	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT