

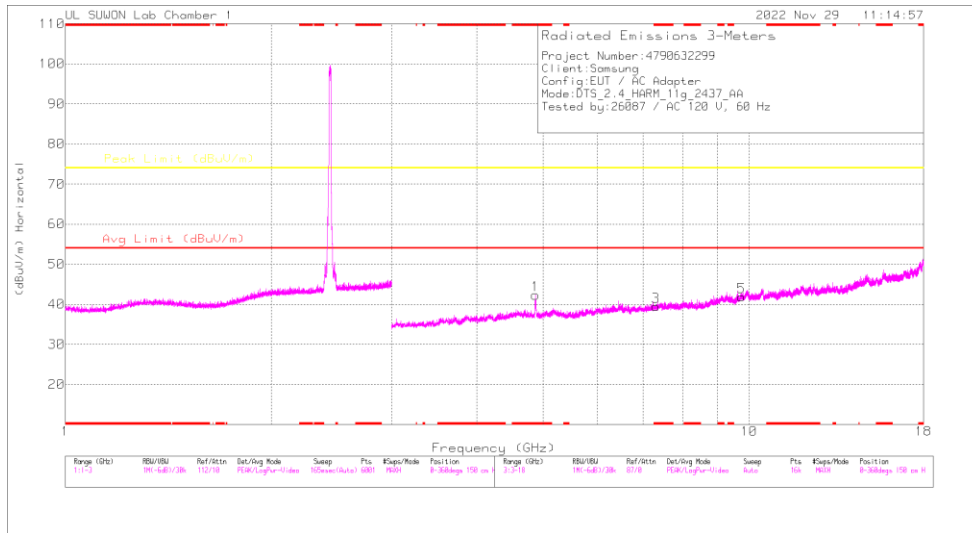
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
2412	MIMO	* 2.39	48.70	Pk	31.90	-28.40	0.00	52.20	-	-	74.00	-21.80	72	217	H	
		* 2.38997	53.57	Pk	31.90	-28.40	0.00	57.07	-	-	74.00	-16.93	72	217	H	
		* 2.39	38.93	RMS	31.90	-28.40	0.12	42.55	54.00	-11.45	-	-	-	72	217	H
		* 2.38996	39.43	RMS	31.90	-28.40	0.12	43.05	54.00	-10.95	-	-	-	72	217	H
		* 2.39	45.98	Pk	31.90	-28.40	0.00	49.48	-	-	74.00	-24.52	134	398	V	
		* 2.34868	48.71	Pk	31.90	-28.40	0.00	52.11	-	-	74.00	-21.89	134	398	V	
		* 2.39	36.23	RMS	31.90	-28.40	0.12	39.85	54.00	-14.15	-	-	-	134	398	V
		* 2.38942	36.92	RMS	31.90	-28.40	0.12	40.54	54.00	-13.46	-	-	-	134	398	V
2417	MIMO	* 2.39	48.07	Pk	31.90	-28.40	0.00	51.57	-	-	74.00	-22.43	337	191	H	
		* 2.38993	51.43	Pk	31.90	-28.40	0.00	54.93	-	-	74.00	-19.07	337	191	H	
		* 2.39	38.70	RMS	31.90	-28.40	0.12	42.32	54.00	-11.68	-	-	-	337	191	H
		* 2.38992	38.87	RMS	31.90	-28.40	0.12	42.49	54.00	-11.51	-	-	-	337	191	H
		* 2.39	47.11	Pk	31.90	-28.40	0.00	50.61	-	-	74.00	-23.39	257	396	V	
		* 2.31707	49.58	Pk	31.70	-28.50	0.00	52.78	-	-	74.00	-21.22	257	396	V	
		* 2.39	36.63	RMS	31.90	-28.40	0.12	40.25	54.00	-13.75	-	-	-	257	396	V
		* 2.38988	37.38	RMS	31.90	-28.40	0.12	41.00	54.00	-13.00	-	-	-	257	396	V
2457	MIMO	* 2.48351	51.82	Pk	32.20	-28.30	0.00	55.72	-	-	74.00	-18.28	76	297	H	
		* 2.48542	59.00	Pk	32.20	-28.30	0.00	62.90	-	-	74.00	-11.10	76	297	H	
		* 2.48351	41.75	RMS	32.20	-28.30	0.12	45.77	54.00	-8.23	-	-	-	76	297	H
		* 2.48355	42.06	RMS	32.20	-28.30	0.12	46.08	54.00	-7.92	-	-	-	76	297	H
		* 2.48351	51.72	Pk	32.20	-28.30	0.00	55.62	-	-	74.00	-18.38	212	381	V	
		* 2.48359	57.67	Pk	32.20	-28.30	0.00	61.57	-	-	74.00	-12.43	212	381	V	
		* 2.48351	41.81	RMS	32.20	-28.30	0.12	45.83	54.00	-8.17	-	-	-	212	381	V
		* 2.48363	41.98	RMS	32.20	-28.30	0.12	46.00	54.00	-8.00	-	-	-	212	381	V
2462	MIMO	* 2.48351	60.09	Pk	32.20	-28.30	0.00	63.99	-	-	74.00	-10.01	83	120	H	
		* 2.48364	60.86	Pk	32.20	-28.30	0.00	64.76	-	-	74.00	-9.24	83	120	H	
		* 2.48351	45.79	RMS	32.20	-28.30	0.12	49.81	54.00	-4.19	-	-	-	83	120	H
		* 2.48359	46.24	RMS	32.20	-28.30	0.12	50.26	54.00	-3.74	-	-	-	83	120	H
		* 2.48351	56.26	Pk	32.20	-28.30	0.00	60.16	-	-	74.00	-13.84	139	375	V	
		* 2.48364	58.76	Pk	32.20	-28.30	0.00	62.66	-	-	74.00	-11.34	139	375	V	
		* 2.48351	42.45	RMS	32.20	-28.30	0.12	46.47	54.00	-7.53	-	-	-	139	375	V
		* 2.48359	42.39	RMS	32.20	-28.30	0.12	46.41	54.00	-7.59	-	-	-	139	375	V

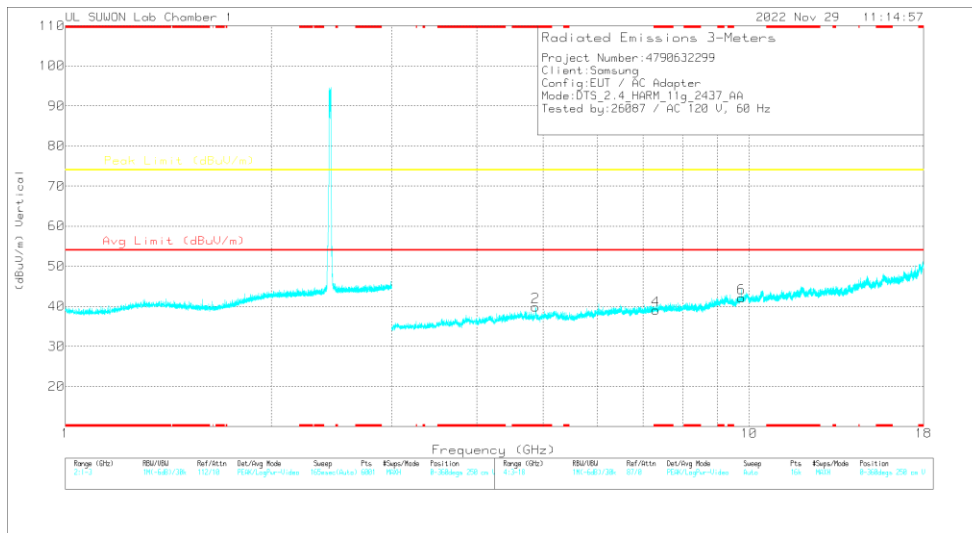
Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL)

CH 6 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	3117_0016871 7	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87133	51.88	PK2	34.2	-33	0	53.08	-	-	74	-20.92	151	104	H
* 4.87395	39.6	MAV1	34.2	-33	.12	40.92	54	-13.08	-	-	151	104	H
* 4.87903	50.29	PK2	34.2	-33.1	0	51.39	-	-	74	-22.61	182	365	V
* 4.87417	38.29	MAV1	34.2	-33	.12	39.61	54	-14.39	-	-	182	365	V
* 7.32007	43.32	PK2	35.7	-30.2	0	48.82	-	-	74	-25.18	0	100	H
* 7.31281	43.69	PK2	35.7	-30.2	0	49.19	-	-	74	-24.81	0	100	V
9.74312	40.25	PK2	37.3	-26.9	0	50.65	-	-	74	-23.35	0	100	H
9.7481	40.75	PK2	37.3	-26.8	0	51.25	-	-	74	-22.75	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2417	MIMO	* 4.83437	40.02	PK2	34.60	-30.20	0.00	44.42	-	-	74.00	-29.58	0	100	H
		* 4.83663	39.83	PK2	34.60	-30.20	0.00	44.23	-	-	74.00	-29.77	0	100	V
		7.248	35.75	PK2	36.00	-25.60	0.00	46.15	-	-	74.00	-27.85	0	100	H
		7.250	35.91	PK2	36.00	-25.60	0.00	46.31	-	-	74.00	-27.69	0	100	V
		9.670	32.96	PK2	37.40	-21.50	0.00	48.86	-	-	74.00	-25.14	0	100	H
		9.668	33.14	PK2	37.40	-21.40	0.00	49.14	-	-	74.00	-24.86	0	100	V
2437	MIMO	* 4.87133	51.88	PK2	34.20	-33.00	0.00	53.08	-	-	74.00	-20.92	151	104	H
		* 4.87395	39.60	MAv1	34.20	-33.00	0.12	40.92	54.00	-13.08	-	-	151	104	H
		* 4.87903	50.29	PK2	34.20	-33.10	0.00	51.39	-	-	74.00	-22.61	182	365	V
		* 4.87417	38.29	MAv1	34.20	-33.00	0.12	39.61	54.00	-14.39	-	-	182	365	V
		* 7.32007	43.32	PK2	35.70	-30.20	0.00	48.82	-	-	74.00	-25.18	0	100	H
		* 7.31281	43.69	PK2	35.70	-30.20	0.00	49.19	-	-	74.00	-24.81	0	100	V
		9.743	40.25	PK2	37.30	-26.90	0.00	50.65	-	-	74.00	-23.35	0	100	H
		9.748	40.75	PK2	37.30	-26.80	0.00	51.25	-	-	74.00	-22.75	0	100	V
2457	MIMO	* 4.91839	40.58	PK2	34.70	-30.80	0.00	44.48	-	-	74.00	-29.52	0	100	H
		* 4.91478	41.27	PK2	34.70	-30.80	0.00	45.17	-	-	74.00	-28.83	0	100	V
		* 7.37272	36.39	PK2	36.00	-24.70	0.00	47.69	-	-	74.00	-26.31	0	100	H
		* 7.36989	35.34	PK2	36.00	-24.70	0.00	46.64	-	-	74.00	-27.36	0	100	V
		9.824	32.97	PK2	37.60	-21.50	0.00	49.07	-	-	74.00	-24.93	0	100	H
		9.830	32.91	PK2	37.70	-21.50	0.00	49.11	-	-	74.00	-24.89	20	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

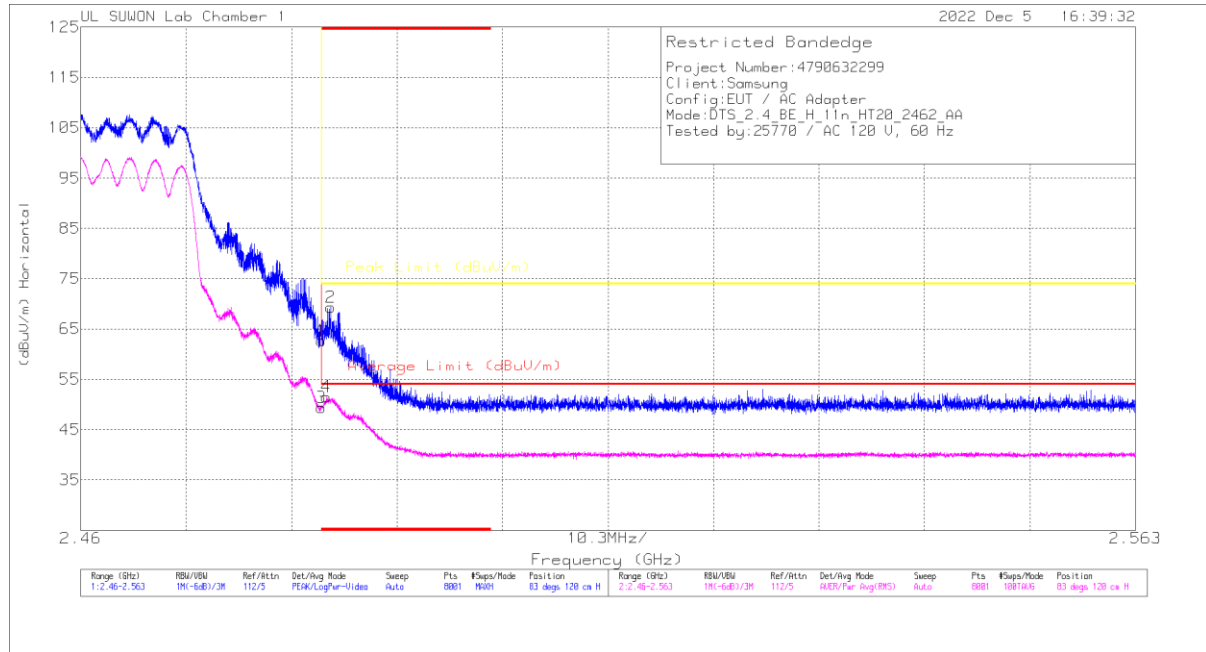
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (WORST CASE: 11 CHANNEL)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Deg)	Height (cm)	Polarity
1	* 2.48351	63.82	Pk	32.2	-28.3	0	62.72	-	-	74	-11.28	83	120	H
2	* 2.4844	65.43	Pk	32.2	-28.3	0	69.33	-	-	74	-4.67	83	120	H
3	* 2.48351	45.54	RMS	32.2	-28.3	0	49.44	54	-4.56	-	-	83	120	H
4	* 2.48399	47.66	RMS	32.2	-28.3	0	51.56	54	-2.44	-	-	83	120	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

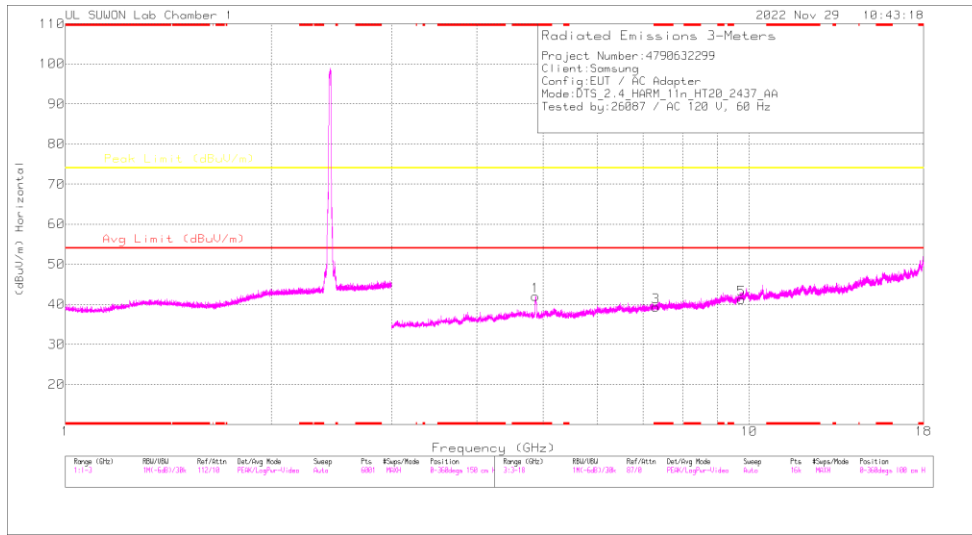
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412	MIMO	* 2.39	51.33	Pk	31.90	-28.40	0.00	54.83	-	-	74.00	-19.17	338	352	H
		* 2.38879	55.00	Pk	31.90	-28.50	0.00	58.40	-	-	74.00	-15.60	338	352	H
		* 2.39	37.98	RMS	31.90	-28.40	0.00	41.48	54.00	-12.52	-	-	338	352	H
		* 2.38924	38.46	RMS	31.90	-28.40	0.00	41.96	54.00	-12.04	-	-	338	352	H
		* 2.39	47.08	Pk	31.90	-28.40	0.00	50.58	-	-	74.00	-23.42	305	398	V
		* 2.38993	50.02	Pk	31.90	-28.40	0.00	53.52	-	-	74.00	-20.48	305	398	V
		* 2.39	36.96	RMS	31.90	-28.40	0.00	40.46	54.00	-13.54	-	-	305	398	V
		* 2.38972	37.04	RMS	31.90	-28.40	0.00	40.54	54.00	-13.46	-	-	305	398	V
2417	MIMO	* 2.39	51.40	Pk	31.90	-28.40	0.00	54.90	-	-	74.00	-19.10	333	191	H
		* 2.38984	52.89	Pk	31.90	-28.40	0.00	56.39	-	-	74.00	-17.61	333	191	H
		* 2.39	38.16	RMS	31.90	-28.40	0.00	41.66	54.00	-12.34	-	-	333	191	H
		* 2.38993	38.73	RMS	31.90	-28.40	0.00	42.23	54.00	-11.77	-	-	333	191	H
		* 2.39	46.17	Pk	31.90	-28.40	0.00	49.67	-	-	74.00	-24.33	238	397	V
		* 2.38812	49.29	Pk	31.90	-28.50	0.00	52.69	-	-	74.00	-21.31	238	397	V
		* 2.39	36.61	RMS	31.90	-28.40	0.00	40.11	54.00	-13.89	-	-	238	397	V
		* 2.38942	37.36	RMS	31.90	-28.40	0.00	40.86	54.00	-13.14	-	-	238	397	V
2457	MIMO	* 2.48351	51.13	Pk	32.20	-28.30	0.00	55.03	-	-	74.00	-18.97	77	296	H
		* 2.48561	59.31	Pk	32.20	-28.30	0.00	63.21	-	-	74.00	-10.79	77	296	H
		* 2.48351	40.96	RMS	32.20	-28.30	0.00	44.86	54.00	-9.14	-	-	77	296	H
		* 2.48437	42.58	RMS	32.20	-28.30	0.00	46.48	54.00	-7.52	-	-	77	296	H
		* 2.48351	53.95	Pk	32.20	-28.30	0.00	57.85	-	-	74.00	-16.15	212	384	V
		* 2.48611	55.60	Pk	32.20	-28.30	0.00	59.50	-	-	74.00	-14.50	212	384	V
		* 2.48351	41.43	RMS	32.20	-28.30	0.00	45.33	54.00	-8.67	-	-	212	384	V
		* 2.48355	41.56	RMS	32.20	-28.30	0.00	45.46	54.00	-8.54	-	-	212	384	V
2462	MIMO	* 2.48351	58.82	Pk	32.20	-28.30	0.00	62.72	-	-	74.00	-11.28	83	120	H
		* 2.4844	65.43	Pk	32.20	-28.30	0.00	69.33	-	-	74.00	-4.67	83	120	H
		* 2.48351	45.54	RMS	32.20	-28.30	0.00	49.44	54.00	-4.56	-	-	83	120	H
		* 2.48399	47.66	RMS	32.20	-28.30	0.00	51.56	54.00	-2.44	-	-	83	120	H
		* 2.48351	52.12	Pk	32.20	-28.30	0.00	56.02	-	-	74.00	-17.98	138	377	V
		* 2.48469	61.81	Pk	32.20	-28.30	0.00	65.71	-	-	74.00	-8.29	138	377	V
		* 2.48351	40.69	RMS	32.20	-28.30	0.00	44.59	54.00	-9.41	-	-	138	377	V
		* 2.48433	43.38	RMS	32.20	-28.30	0.00	47.28	54.00	-6.72	-	-	138	377	V

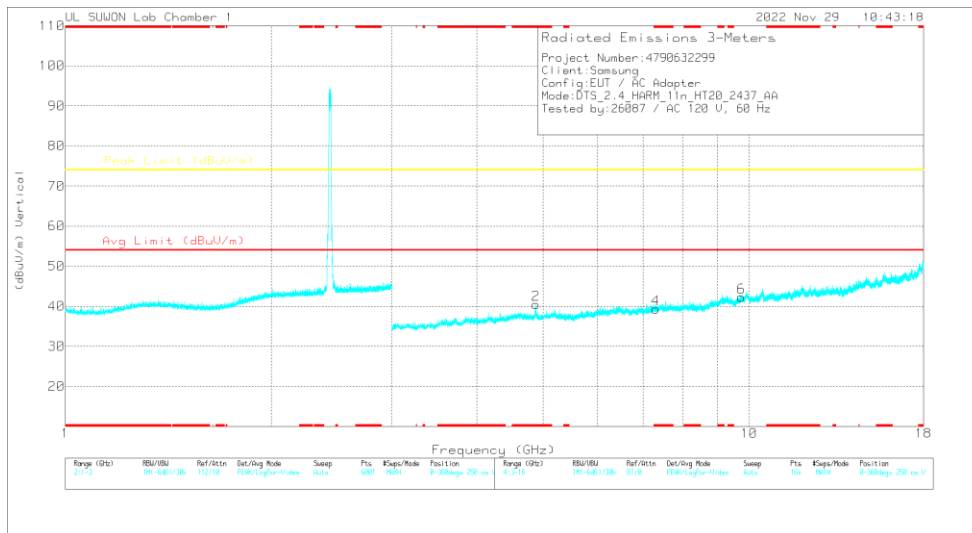
Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL)

CH 6 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	3117_0016871 7	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87588	51.5	PK2	34.2	-33	0	52.7	-	-	74	-21.3	153	104	H
* 4.87498	39.28	MAV1	34.2	-33	0	40.48	54	-13.52	-	-	153	104	H
* 4.87501	51.46	PK2	34.2	-33	0	52.66	-	-	74	-21.34	196	308	V
* 4.87531	38.69	MAV1	34.2	-33	0	39.89	54	-14.11	-	-	196	308	V
* 7.30267	43.28	PK2	35.7	-30.2	0	48.78	-	-	74	-25.22	0	100	H
* 7.31239	43.82	PK2	35.7	-30.2	0	49.32	-	-	74	-24.68	0	100	V
9.75692	40.88	PK2	37.3	-26.5	0	51.68	-	-	74	-22.32	0	100	H
9.75094	40.71	PK2	37.3	-26.7	0	51.31	-	-	74	-22.69	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2417	MIMO	* 4.83653	39.53	PK2	34.60	-30.20	0.00	43.93	-	-	74.00	-30.07	0	100	H
		* 4.83341	39.32	PK2	34.60	-30.20	0.00	43.72	-	-	74.00	-30.28	158	117	V
		* 7.25263	35.60	PK2	36.00	-25.60	0.00	46.00	-	-	74.00	-28.00	0	100	H
		7.247	35.70	PK2	36.00	-25.60	0.00	46.10	-	-	74.00	-27.90	158	117	V
		9.668	32.58	PK2	37.40	-21.40	0.00	48.58	-	-	74.00	-25.42	158	117	H
		9.668	33.30	PK2	37.40	-21.40	0.00	49.30	-	-	74.00	-24.70	16	103	V
2437	MIMO	* 4.87588	51.50	PK2	34.20	-33.00	0.00	52.70	-	-	74.00	-21.30	153	104	H
		* 4.87498	39.28	MAv1	34.20	-33.00	0.00	40.48	54.00	-13.52	-	-	153	104	H
		* 4.87501	51.46	PK2	34.20	-33.00	0.00	52.66	-	-	74.00	-21.34	196	308	V
		* 4.87531	38.69	MAv1	34.20	-33.00	0.00	39.89	54.00	-14.11	-	-	196	308	V
		* 7.30267	43.28	PK2	35.70	-30.20	0.00	48.78	-	-	74.00	-25.22	0	100	H
		* 7.31239	43.82	PK2	35.70	-30.20	0.00	49.32	-	-	74.00	-24.68	0	100	V
		9.757	40.88	PK2	37.30	-26.50	0.00	51.68	-	-	74.00	-22.32	0	100	H
		9.751	40.71	PK2	37.30	-26.70	0.00	51.31	-	-	74.00	-22.69	0	100	V
2457	MIMO	* 4.91839	40.58	PK2	34.70	-30.80	0.00	44.48	-	-	74.00	-29.52	0	100	H
		* 4.91478	41.27	PK2	34.70	-30.80	0.00	45.17	-	-	74.00	-28.83	0	100	V
		* 7.37272	36.39	PK2	36.00	-24.70	0.00	47.69	-	-	74.00	-26.31	0	100	H
		* 7.36989	35.34	PK2	36.00	-24.70	0.00	46.64	-	-	74.00	-27.36	0	100	V
		9.824	32.97	PK2	37.60	-21.50	0.00	49.07	-	-	74.00	-24.93	0	100	H
		9.830	32.91	PK2	37.70	-21.50	0.00	49.11	-	-	74.00	-24.89	20	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

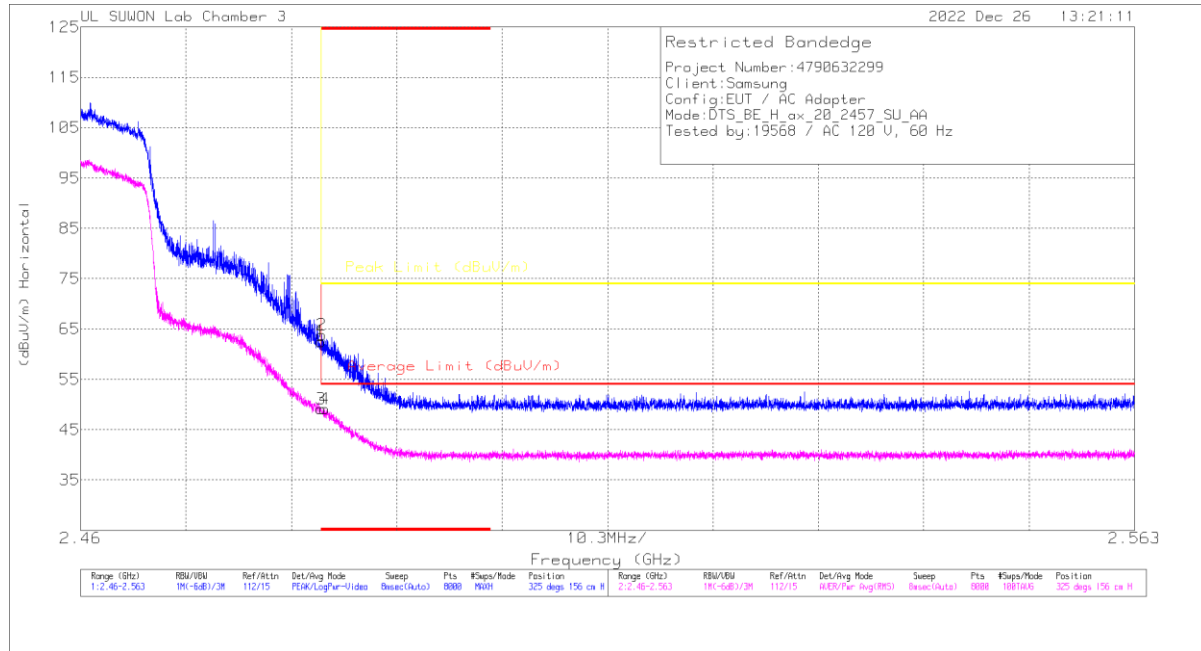
Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.1.4. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 2.4 GHz BAND

2TX Antenna 1 + Antenna 2

BANDEDGE (10 CHANNEL, SU MODE)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	317_00218967	10dB_ATT(dB)	DC Corr (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	54.24	PK		-24.7	0	62.44	-	-	74	-11.56	325	156	H
2	* 2.48354	55.67	PK		-24.7	0	63.87	-	-	74	-10.13	325	156	H
3	* 2.4835	40.88	RMS		-24.7	0	49.08	54	-4.92	-	-	325	156	H
4	* 2.48387	40.99	RMS		-24.7	0	48.19	54	-4.81	-	-	325	156	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak detector
 RMS - RMS detection

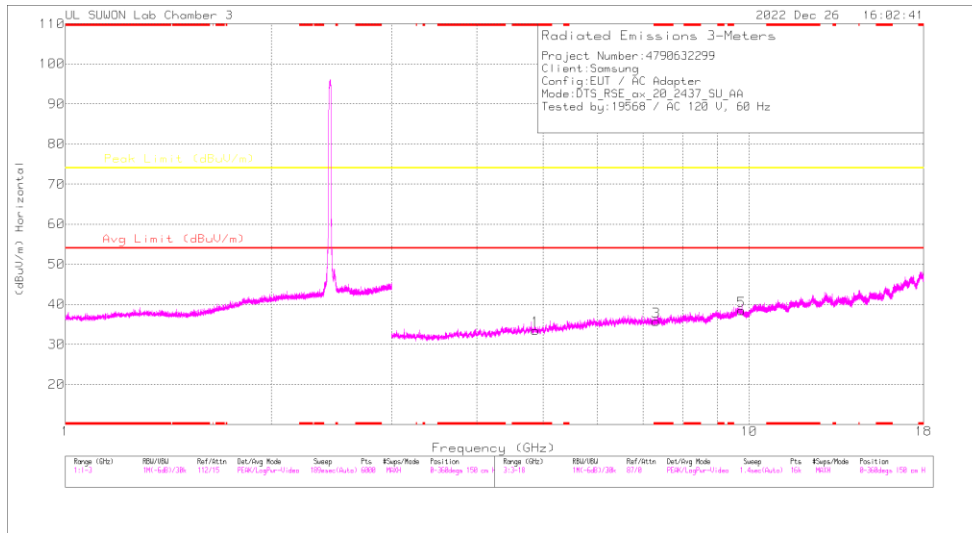
BANDEDGE TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity	
2412 ORU	MIMO	* 2.39	41.18	Pk	32.80	-24.80	0.00	49.18	-	-	74.00	-24.82	336	138	H	
		* 2.38977	45.17	Pk	32.80	-24.80	0.00	53.17	-	-	74.00	-20.83	336	138	H	
		* 2.39	32.31	RMS	32.80	-24.80	0.00	40.31	54.00	-13.69	-	-	-	336	138	H
		* 2.36269	33.08	RMS	32.70	-24.90	0.00	40.88	54.00	-13.12	-	-	-	336	138	H
		* 2.39	42.27	Pk	32.80	-24.80	0.00	50.27	-	-	74.00	-23.73	215	345	V	
		* 2.38947	49.16	Pk	32.80	-24.80	0.00	57.16	-	-	74.00	-16.84	215	345	V	
		* 2.39	32.70	RMS	32.80	-24.80	0.00	40.70	54.00	-13.30	-	-	-	215	345	V
		* 2.38998	33.11	RMS	32.80	-24.80	0.00	41.11	54.00	-12.89	-	-	-	215	345	V
2412 SU	MIMO	* 2.39	45.89	Pk	32.80	-24.80	0.00	53.89	-	-	74.00	-20.11	62	100	H	
		* 2.38829	49.46	Pk	32.80	-24.80	0.00	57.46	-	-	74.00	-16.54	62	100	H	
		* 2.39	33.80	RMS	32.80	-24.80	0.00	41.80	54.00	-12.20	-	-	-	62	100	H
		* 2.38976	34.18	RMS	32.80	-24.80	0.00	42.18	54.00	-11.82	-	-	-	62	100	H
		* 2.39	41.99	Pk	32.80	-24.80	0.00	49.99	-	-	74.00	-24.01	215	345	V	
		* 2.38899	47.32	Pk	32.80	-24.80	0.00	55.32	-	-	74.00	-18.68	215	345	V	
		* 2.39	33.53	RMS	32.80	-24.80	0.00	41.53	54.00	-12.47	-	-	-	215	345	V
		* 2.38972	33.71	RMS	32.80	-24.80	0.00	41.71	54.00	-12.29	-	-	-	215	345	V
2417 SU	MIMO	* 2.39	46.56	Pk	32.80	-24.80	0.00	54.56	-	-	74.00	-19.44	66	100	H	
		* 2.38843	54.79	Pk	32.80	-24.80	0.00	62.79	-	-	74.00	-11.21	66	100	H	
		* 2.39	35.86	RMS	32.80	-24.80	0.00	43.86	54.00	-10.14	-	-	-	66	100	H
		* 2.3893	36.23	RMS	32.80	-24.80	0.00	44.23	54.00	-9.77	-	-	-	66	100	H
		* 2.39	44.16	Pk	32.80	-24.80	0.00	52.16	-	-	74.00	-21.84	216	387	V	
		* 2.38954	49.52	Pk	32.80	-24.80	0.00	57.52	-	-	74.00	-16.48	216	387	V	
		* 2.39	34.17	RMS	32.80	-24.80	0.00	42.17	54.00	-11.83	-	-	-	216	387	V
		* 2.38955	34.46	RMS	32.80	-24.80	0.00	42.46	54.00	-11.54	-	-	-	216	387	V
2457 SU	MIMO	* 2.4835	54.24	Pk	32.90	-24.70	0.00	62.44	-	-	74.00	-11.56	325	156	H	
		* 2.48354	55.67	Pk	32.90	-24.70	0.00	63.87	-	-	74.00	-10.13	325	156	H	
		* 2.4835	40.88	RMS	32.90	-24.70	0.00	49.08	54.00	-4.92	-	-	-	325	156	H
		* 2.48387	40.99	RMS	32.90	-24.70	0.00	49.19	54.00	-4.81	-	-	-	325	156	H
		* 2.4835	47.63	Pk	32.90	-24.70	0.00	55.83	-	-	74.00	-18.17	212	368	V	
		* 2.48488	52.35	Pk	32.90	-24.70	0.00	60.55	-	-	74.00	-13.45	212	368	V	
		* 2.4835	36.65	RMS	32.90	-24.70	0.00	44.85	54.00	-9.15	-	-	-	212	368	V
		* 2.48358	37.63	RMS	32.90	-24.70	0.00	45.83	54.00	-8.17	-	-	-	212	368	V
2462 SU	MIMO	* 2.4835	52.84	Pk	32.90	-24.70	0.00	61.04	-	-	74.00	-12.96	322	177	H	
		* 2.48506	58.60	Pk	32.90	-24.70	0.00	66.80	-	-	74.00	-7.20	322	177	H	
		* 2.4835	39.20	RMS	32.90	-24.70	0.00	47.40	54.00	-6.60	-	-	-	322	177	H
		* 2.4839	39.98	RMS	32.90	-24.70	0.00	48.18	54.00	-5.82	-	-	-	322	177	H
		* 2.4835	49.59	Pk	32.90	-24.70	0.00	57.79	-	-	74.00	-16.21	215	372	V	
		* 2.4839	53.81	Pk	32.90	-24.70	0.00	62.01	-	-	74.00	-11.99	215	372	V	
		* 2.4835	36.02	RMS	32.90	-24.70	0.00	44.22	54.00	-9.78	-	-	-	215	372	V
		* 2.48405	36.80	RMS	32.90	-24.70	0.00	45.00	54.00	-9.00	-	-	-	215	372	V
2462 8RU	MIMO	* 2.4835	42.28	Pk	32.90	-24.70	0.00	50.48	-	-	74.00	-23.52	337	113	H	
		* 2.48373	53.43	Pk	32.90	-24.70	0.00	61.63	-	-	74.00	-12.37	337	113	H	
		* 2.4835	32.58	RMS	32.90	-24.70	0.00	40.78	54.00	-13.22	-	-	-	337	113	H
		* 2.48368	33.78	RMS	32.90	-24.70	0.00	41.98	54.00	-12.02	-	-	-	337	113	H
		* 2.4835	41.76	Pk	32.90	-24.70	0.00	49.96	-	-	74.00	-24.04	242	264	V	
		* 2.48494	51.63	Pk	32.90	-24.70	0.00	59.83	-	-	74.00	-14.17	242	264	V	
		* 2.4835	32.29	RMS	32.90	-24.70	0.00	40.49	54.00	-13.51	-	-	-	242	264	V
		* 2.4844	33.38	RMS	32.90	-24.70	0.00	41.58	54.00	-12.42	-	-	-	242	264	V

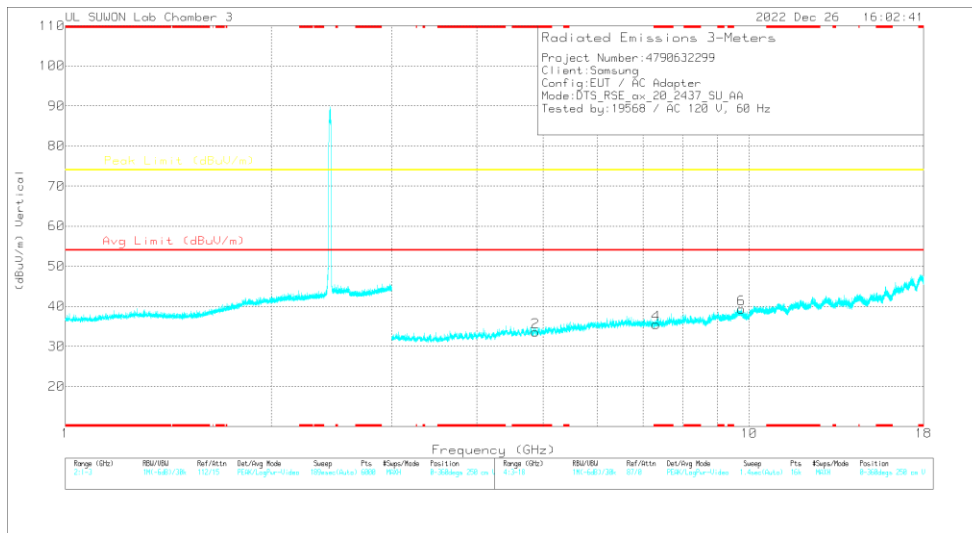
Note1. Pk - Peak detector, RMS - RMS detector
 Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL, 4RU)

CH 6 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	3117_00218957	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.8757	39.7	PK2	34.7	-30.6	0	43.8	-	-	74	-30.2	0	100	H
* 4.86707	39.97	PK2	34.6	-30.5	0	44.07	-	-	74	-29.93	0	100	V
* 7.31056	35.37	PK2	36	-25.3	0	46.07	-	-	74	-27.93	0	100	H
* 7.31354	34.93	PK2	36	-25.2	0	45.73	-	-	74	-28.27	0	100	V
9.74262	32.4	PK2	37.5	-21.4	0	48.5	-	-	74	-25.5	0	100	H
9.74806	32.8	PK2	37.5	-21.4	0	48.9	-	-	74	-25.1	20	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

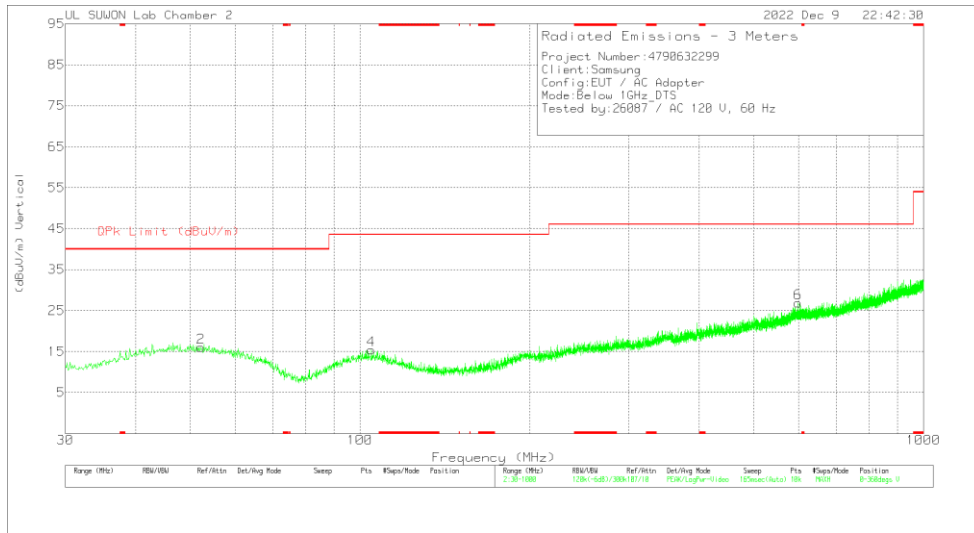
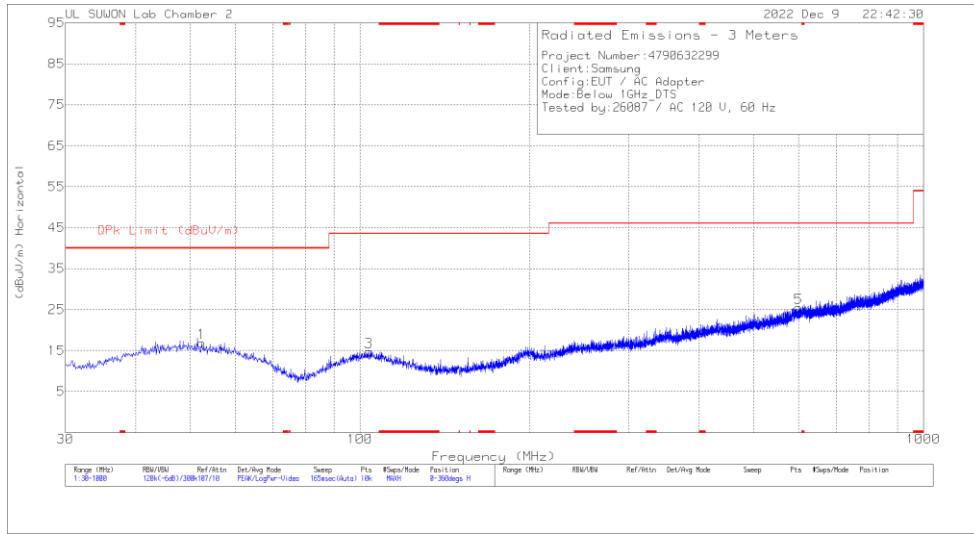
HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2412 RU4	MIMO	* 4.83119	39.28	PK2	34.60	-30.10	0.00	43.78	-	-	74.00	-30.22	0	100	H
		4.81676	39.41	PK2	34.60	-30.00	0.00	44.01	-	-	74.00	-29.99	0	100	V
		7.228	35.51	PK2	36.00	-25.60	0.00	45.91	-	-	74.00	-28.09	0	100	H
		7.234	35.27	PK2	36.00	-25.60	0.00	45.67	-	-	74.00	-28.33	0	100	V
		9.655	32.15	PK2	37.40	-21.50	0.00	48.05	-	-	74.00	-25.95	0	100	H
		9.648	32.55	PK2	37.40	-21.50	0.00	48.45	-	-	74.00	-25.55	54	100	V
2437 RU4	MIMO	* 4.87148	39.77	PK2	34.60	-30.60	0.00	43.77	-	-	74.00	-30.23	0	100	H
		* 4.87003	40.58	PK2	34.60	-30.50	0.00	44.68	-	-	74.00	-29.32	0	100	V
		* 7.30512	35.13	PK2	36.00	-25.30	0.00	45.83	-	-	74.00	-28.17	0	100	H
		* 7.30293	35.52	PK2	36.00	-25.30	0.00	46.22	-	-	74.00	-27.78	0	100	V
		9.758	31.97	PK2	37.50	-21.30	0.00	48.17	-	-	74.00	-25.83	0	100	H
		9.748	33.16	PK2	37.50	-21.40	0.00	49.26	-	-	74.00	-24.74	18	113	V
2462 RU4	MIMO	* 4.93011	40.30	PK2	34.70	-30.70	0.00	44.30	-	-	74.00	-29.70	0	100	H
		* 4.92332	39.90	PK2	34.70	-30.70	0.00	43.90	-	-	74.00	-30.10	0	100	V
		* 7.39633	34.45	PK2	36.00	-24.60	0.00	45.85	-	-	74.00	-28.15	0	100	H
		* 7.38279	34.38	PK2	36.00	-24.70	0.00	45.68	-	-	74.00	-28.32	0	100	V
		9.857	31.62	PK2	37.70	-21.50	0.00	47.82	-	-	74.00	-26.18	0	100	H
		9.848	32.14	PK2	37.70	-21.50	0.00	48.34	-	-	74.00	-25.66	20	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

Note2. * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

10.2. WORST CASE BELOW 1 GHZ



Below 1GHz DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below 1G[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.31	28.55	Pk	19.7	-31.3	0	16.95	40	-23.05	0-360	100	H
3	103.526	27.71	Pk	17.6	-30.6	0	14.71	43.52	-28.81	0-360	100	H
5	600.748	28.04	Pk	25	-27.5	0	25.54	46.02	-20.48	0-360	100	H
2	52.213	27.67	Pk	19.7	-31.3	0	16.07	40	-23.93	0-360	300	V
4	104.787	28.44	Pk	17.6	-30.6	0	15.44	43.52	-28.08	0-360	200	V
6	599.39	29.45	Pk	25	-27.6	0	26.85	46.02	-19.17	0-360	100	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.

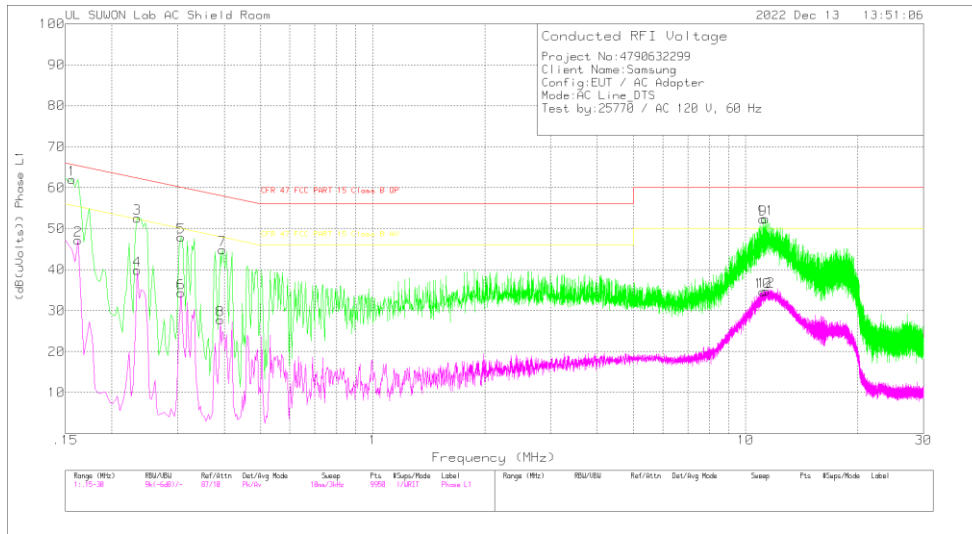
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. AC Power Line

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With h EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.156	52.1	Pk	9.8	.1	62	65.67	-3.67	-	-
2	.162	37.22	Av	9.9	.1	47.22	-	-	55.36	-8.14
3	.234	42.66	Pk	9.7	.2	52.56	62.31	-9.75	-	-
4	.234	29.95	Av	9.7	.2	39.85	-	-	52.31	-12.46
5	.306	38.04	Pk	9.7	.2	47.94	60.08	-12.14	-	-
6	.306	24.41	Av	9.7	.2	34.31	-	-	50.08	-15.77
7	.396	34.77	Pk	9.8	.2	44.77	57.94	-13.17	-	-
8	.39	17.7	Av	9.8	.2	27.7	-	-	48.06	-20.36
9	11.13	42.14	Pk	9.9	.3	52.34	60	-7.66	-	-
10	11.133	24.46	Av	9.9	.3	34.66	-	-	50	-15.34
11	11.319	42.2	Pk	9.9	.3	52.4	60	-7.6	-	-
12	11.34	24.58	Av	9.9	.3	34.78	-	-	50	-15.22

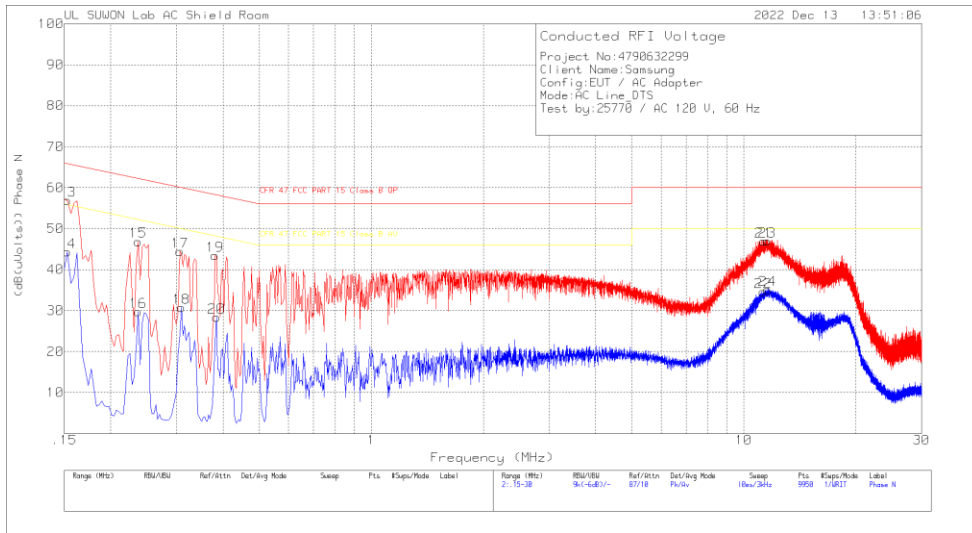
Pk - Peak detector
 Av - Average detection

Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15525	29.43	Qp	9.8	.1	39.33	65.71	-26.38	-	-
.23475	25.3	Qp	9.7	.2	35.2	62.28	-27.08	-	-
11.1293	33.33	Qp	9.9	.3	43.53	60	-16.47	-	-
11.1323	28.27	Qp	9.9	.3	38.47	60	-21.53	-	-

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.153	47.05	Pk	9.8	.1	56.95	65.84	-8.89	-	-
14	.153	34.37	Av	9.8	.1	44.27	-	-	55.84	-11.57
15	.237	36.98	Pk	9.7	.2	46.88	62.2	-15.32	-	-
16	.237	19.81	Av	9.7	.2	29.71	-	-	52.2	-22.49
17	.306	34.57	Pk	9.7	.2	44.47	60.08	-15.61	-	-
18	.309	20.89	Av	9.7	.2	30.79	-	-	50	-19.21
19	.381	33.49	Pk	9.8	.2	43.49	58.26	-14.77	-	-
20	.384	18.33	Av	9.8	.2	28.33	-	-	48.19	-19.86
21	11.298	36.75	Pk	9.9	.3	46.95	60	-13.05	-	-
22	11.271	24.41	Av	9.9	.3	34.61	-	-	50	-15.39
23	11.571	36.76	Pk	9.9	.3	46.96	60	-13.04	-	-
24	11.574	24.86	Av	9.9	.3	35.06	-	-	50	-14.94

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

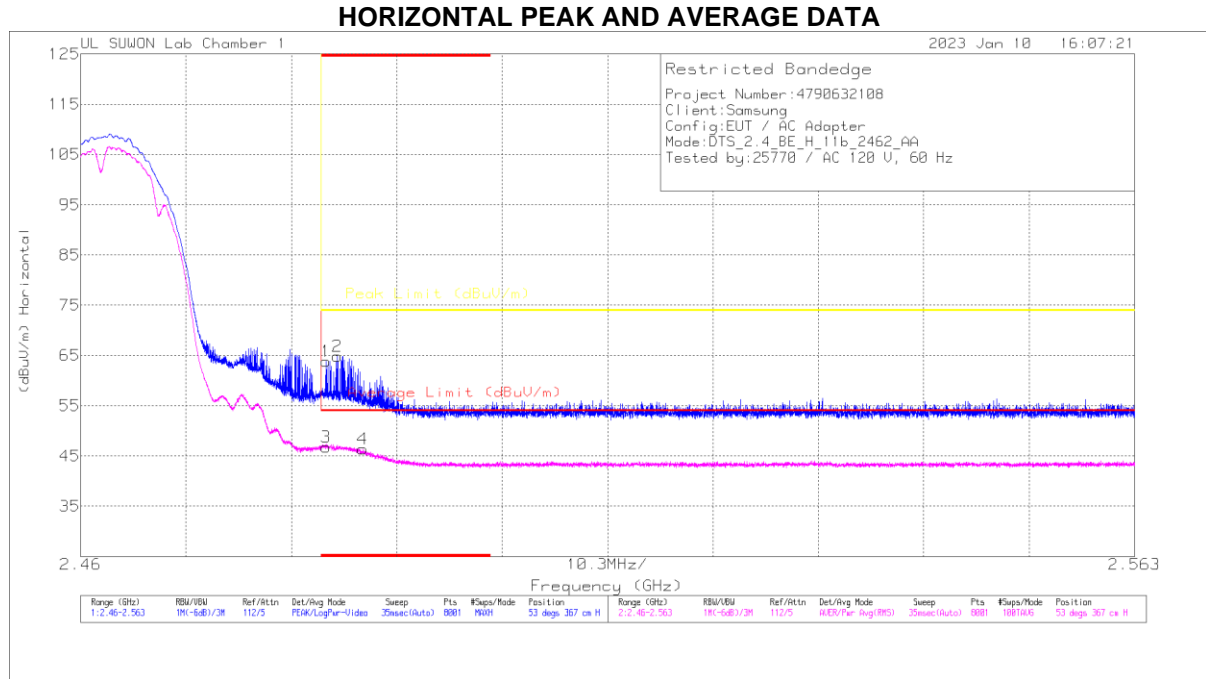
Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15225	35.26	Qp	9.7	.1	45.06	65.88	-20.82	-	-

Qp - Quasi-Peak detector

12. SPOT-CHECK TEST RESULT

BANDEDGE (WORST CASE: 802.11b MIMO / 2462 MHz)

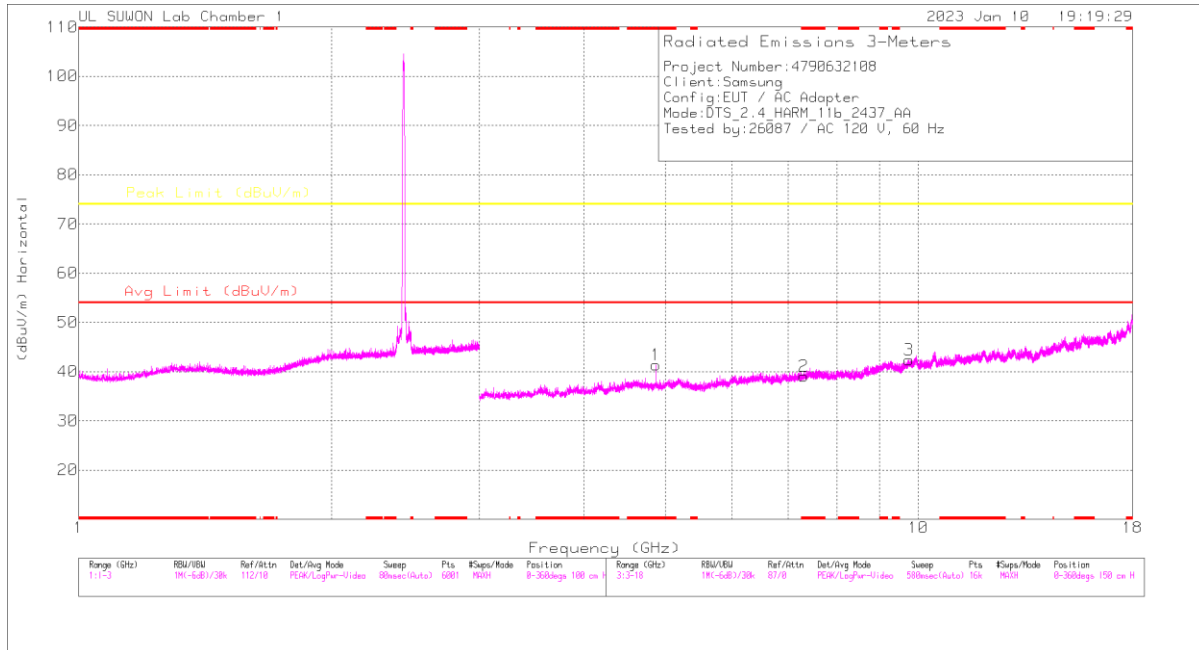


Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBu/m)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Acsmth (Degs)	Height (cm)	Polarity
1	* 2.484	56.7	Pk	32.2	-25.1	0	63.8	-	-	74	-10.2	53	367	H
2	* 2.48511	57.63	Pk	32.2	-25	0	64.83	-	-	74	-9.17	53	367	H
3	* 2.484	39.63	RMS	32.2	-25.1	0	46.73	54	-7.27	-	-	53	367	H
4	* 2.48757	39.16	RMS	32.2	-25	0	46.36	54	-7.64	-	-	53	367	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11b MIMO / 2437 MHz)
2437 MHz HORIZONTAL



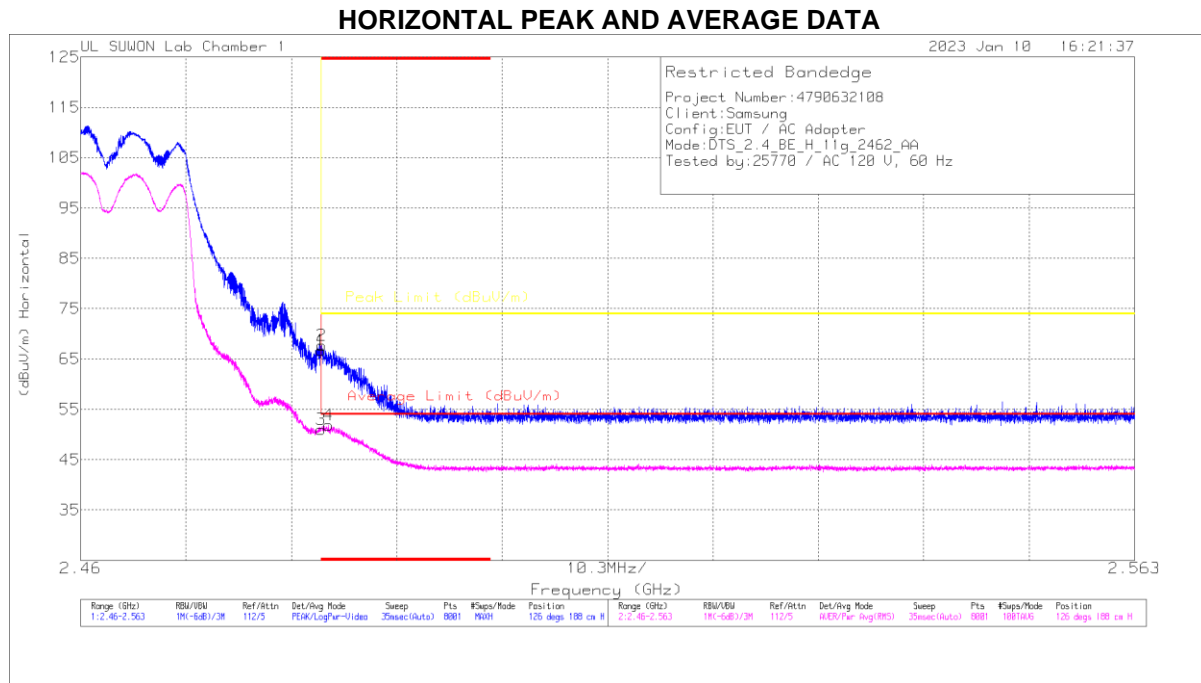
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87411	48.51	PK2	34.2	-33	0	49.71	-	-	74	-24.29	150	125	H
* 4.87397	40.97	MAv1	34.2	-33	0	42.17	54	-11.83	-	-	150	125	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

BANDEDGE (WORST CASE: 802.11g MIMO / 2462 MHz)

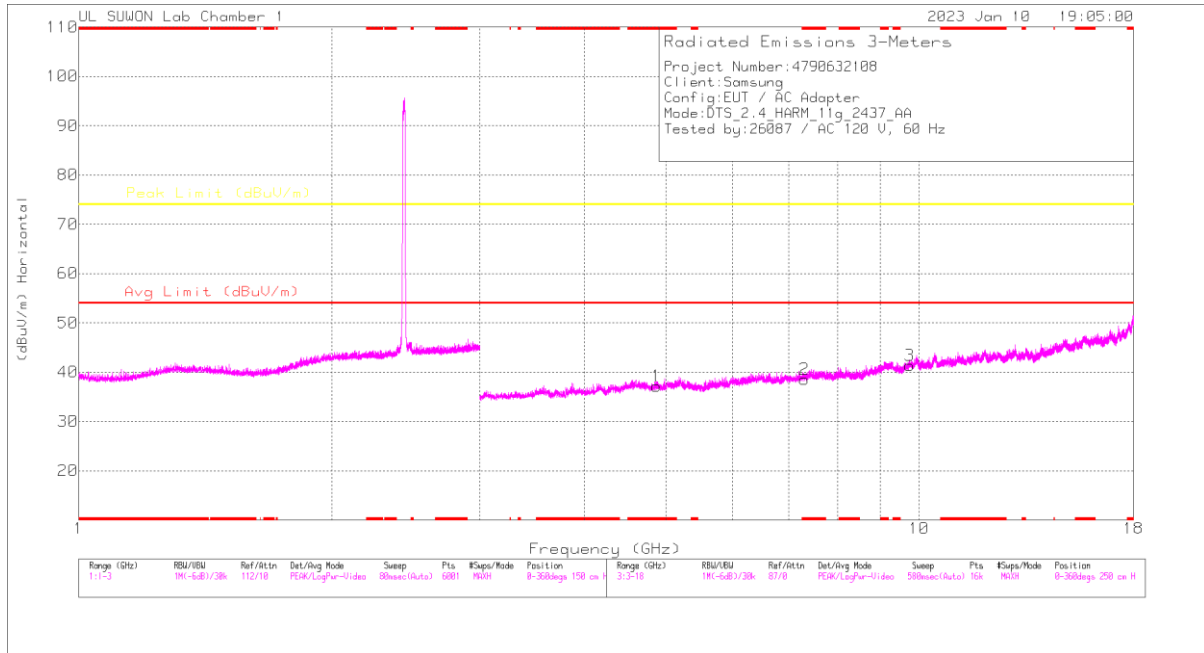


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	59.65	Pk	32.2	-25.1	0	66.75	-	-	74	-7.25	126	188	H
2	* 2.48354	60.64	Pk	32.2	-25.1	0	67.74	-	-	74	-6.26	126	188	H
3	* 2.48351	43.75	RMS	32.2	-25.1	.12	50.97	54	-3.03	-	-	126	188	H
4	* 2.48422	44.66	RMS	32.2	-25.1	.12	51.88	54	-2.12	-	-	126	188	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11g / 2437 MHz)
2437 MHz HORIZONTAL



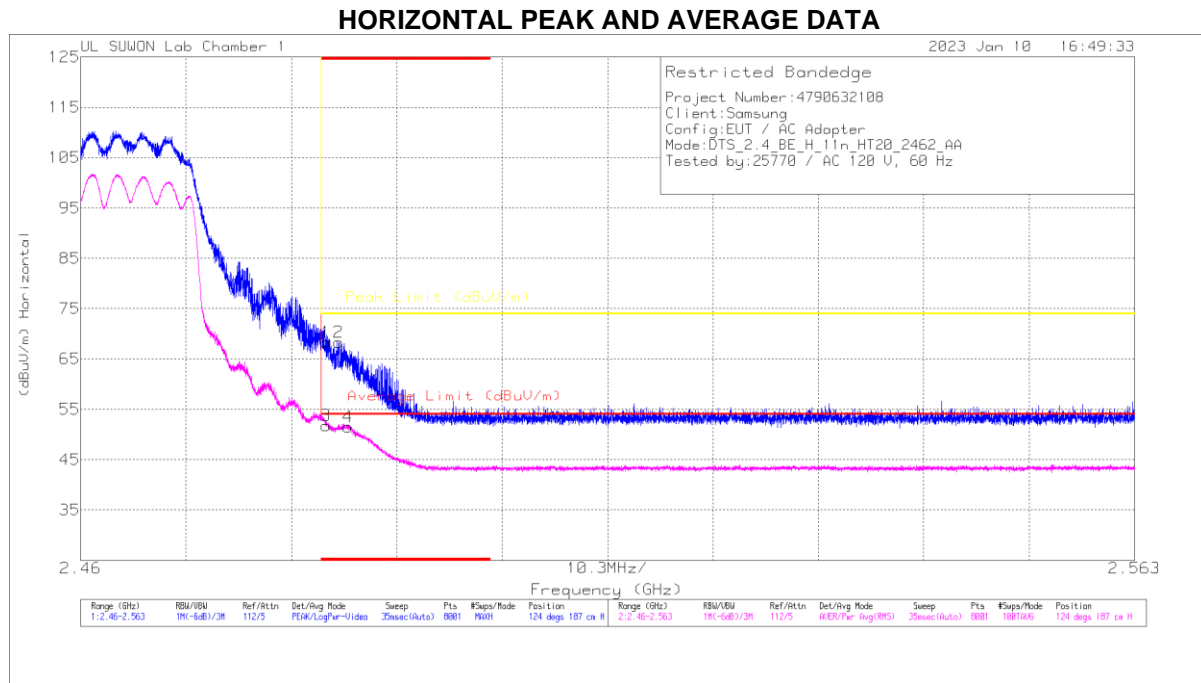
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.8746	45.46	PK2	34.2	-33	0	46.66	-	-	74	-27.34	360	100	H
* 4.8732	33.86	MAV1	34.2	-33	.12	35.18	54	-18.82	-	-	360	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAV1 - KDB558074 Option 1 Maximum RMS Average

BANDEDGE (WORST CASE: 802.11n HT20 MIMO / 2462 MHz)

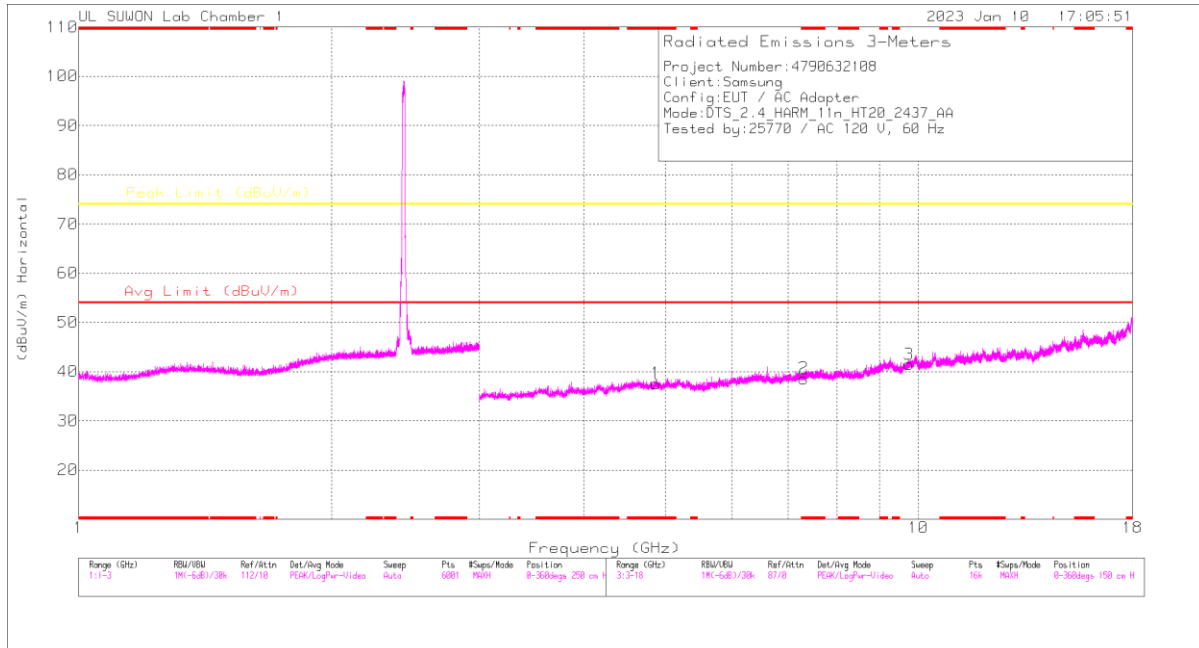


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	61.19	Pk	32.2	-25.1	0	68.29	-	-	74	-5.71	124	187	H
2	* 2.48524	61.08	Pk	32.2	-25.1	0	68.28	-	-	74	-5.72	124	187	H
3	* 2.484	44.64	RMS	32.2	-25.1	0	51.74	54	-2.26	-	-	124	187	H
4	* 2.48614	44.3	RMS	32.2	-25.1	0	51.5	54	-2.5	-	-	124	187	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11n HT20 MIMO / 2437 MHz)
2437 MHz HORIZONTAL



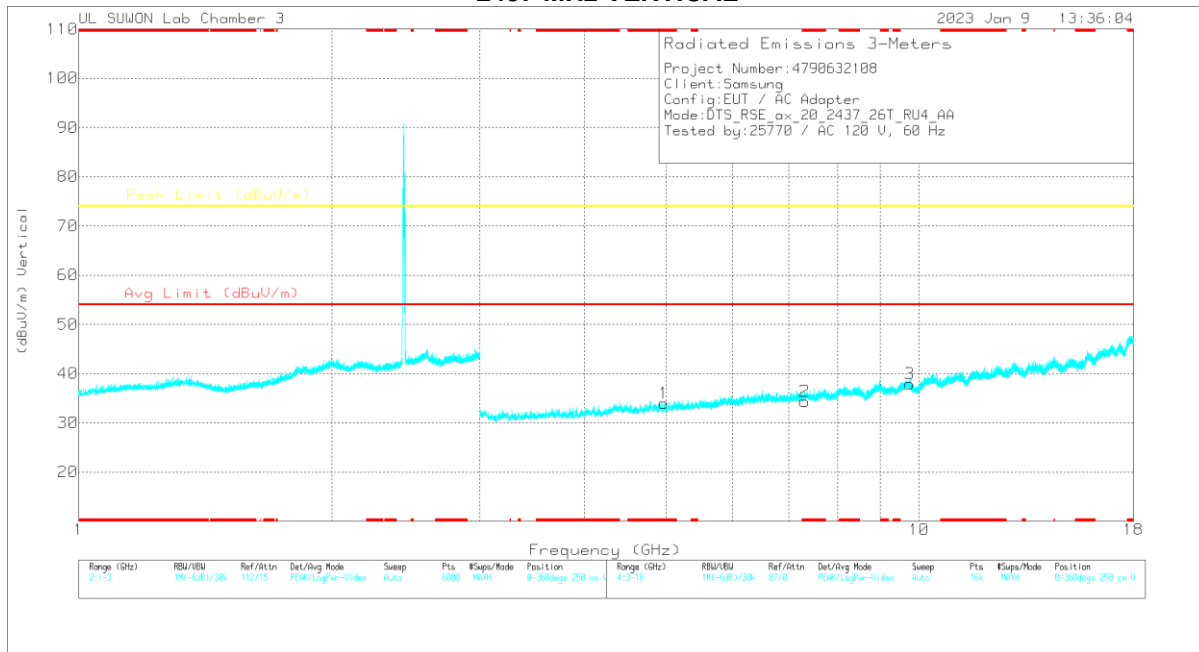
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87661	45.68	PK2	34.2	-33	0	46.88	-	-	74	-27.12	0	100	H
* 4.87531	34.13	MAV1	34.2	-33	0	35.33	54	-18.67	-	-	0	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 802.11ax HE20 RU4 MIMO / 2437 MHz)
2437 MHz VERTICAL



Note: Emission was scanned up to 40GHz; 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	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.74787	32.35	PK2	36.8	-21.4	0	47.75	-	-	74	-26.25	14	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

END OF TEST REPORT