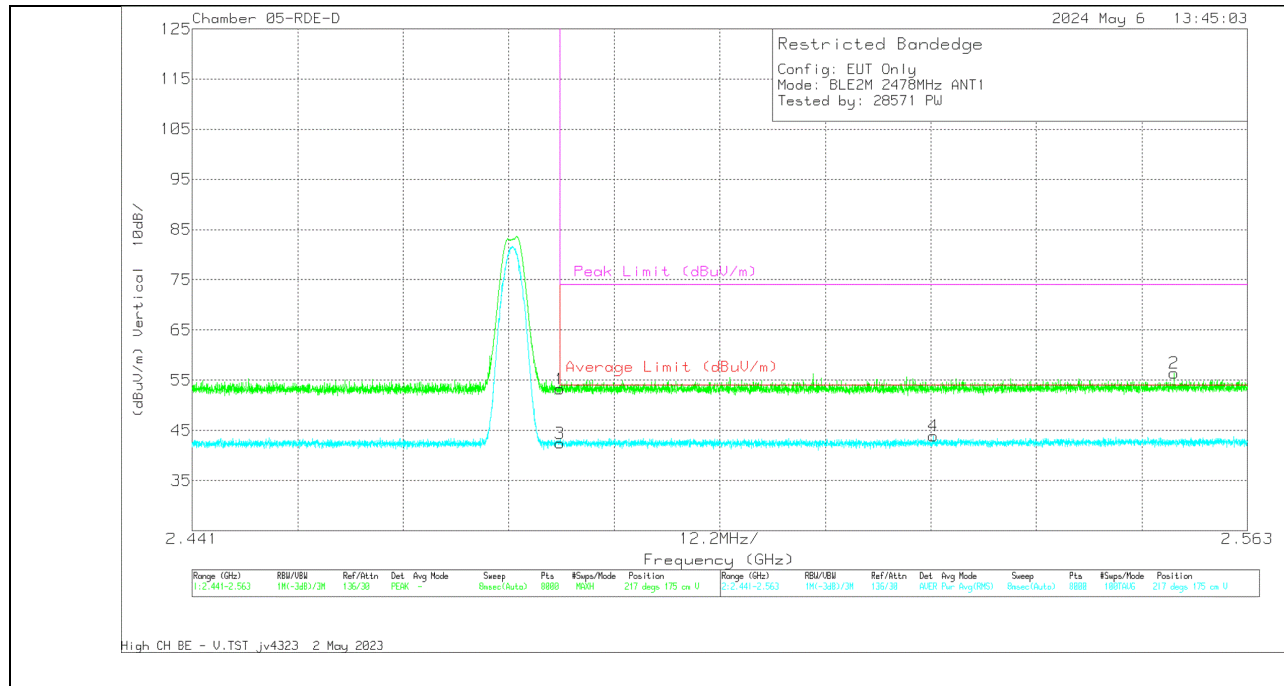


VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230299 ACF (dB/m) 3mH	Gain/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	61.71	Pk	32.3	-40.78	53.23	-	-	74	-20.77	217	175	V
3	*2.4835	50.93	RMS	32.3	-40.78	42.45	54	-11.55	-	-	217	175	V
4	*2.526686	52.16	RMS	32.4	-40.67	43.89	54	-10.11	-	-	217	175	V
2	*2.554536	64.48	Pk	32.5	-40.57	56.41	-	-	74	-17.59	217	175	V

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

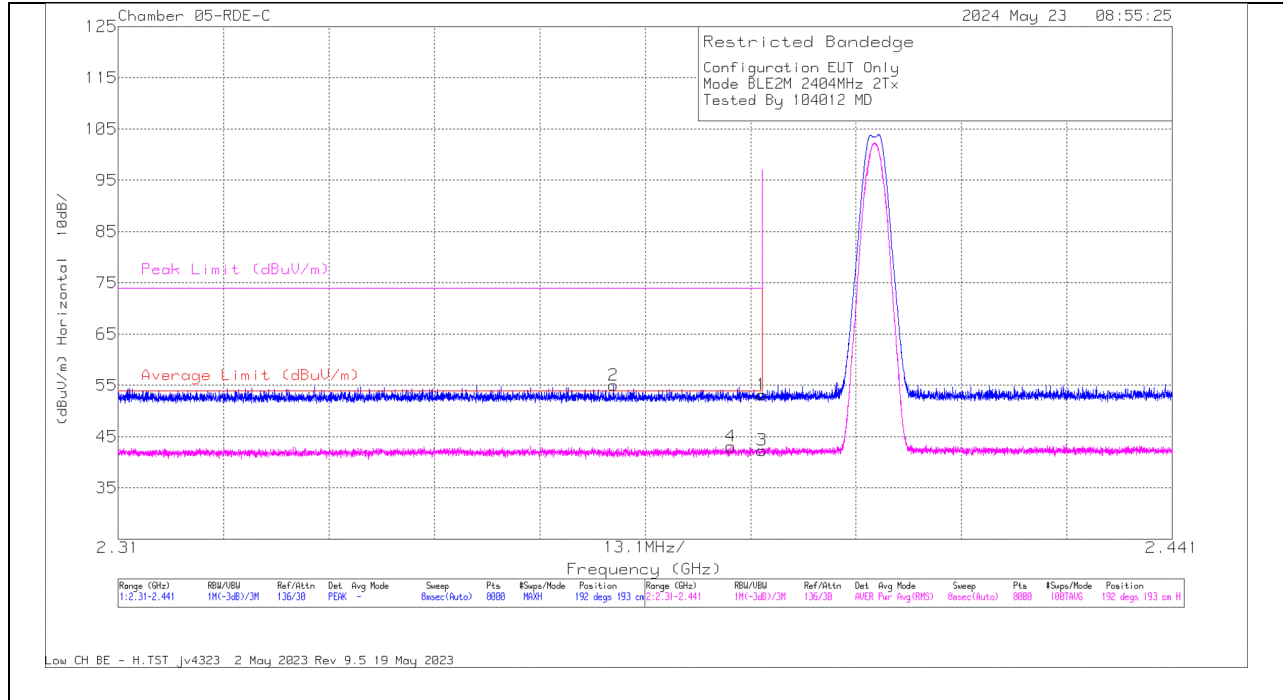
Pk - Peak detector

RMS - RMS detection

10.2.8. LOW POWER BLE TXBF (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



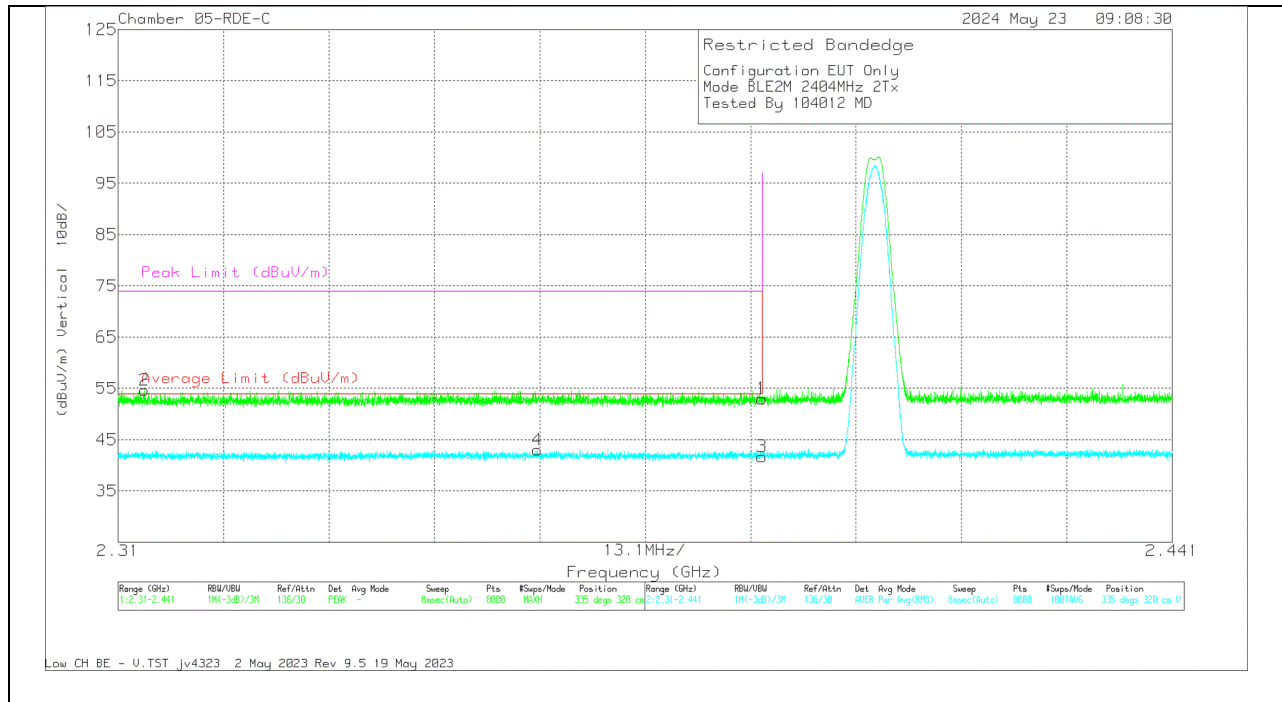
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF 3m (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.371545	63.51	Pk	32	-40.5	55.01	-	-	74	-18.99	192	193	H
4	*2.386137	51.49	RMS	32.1	-40.5	43.09	54	-10.91	-	-	192	193	H
1	*2.39	61.58	Pk	32.1	-40.5	53.18	-	-	74	-20.82	192	193	H
3	*2.39	50.73	RMS	32.1	-40.5	42.33	54	-11.67	-	-	192	193	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

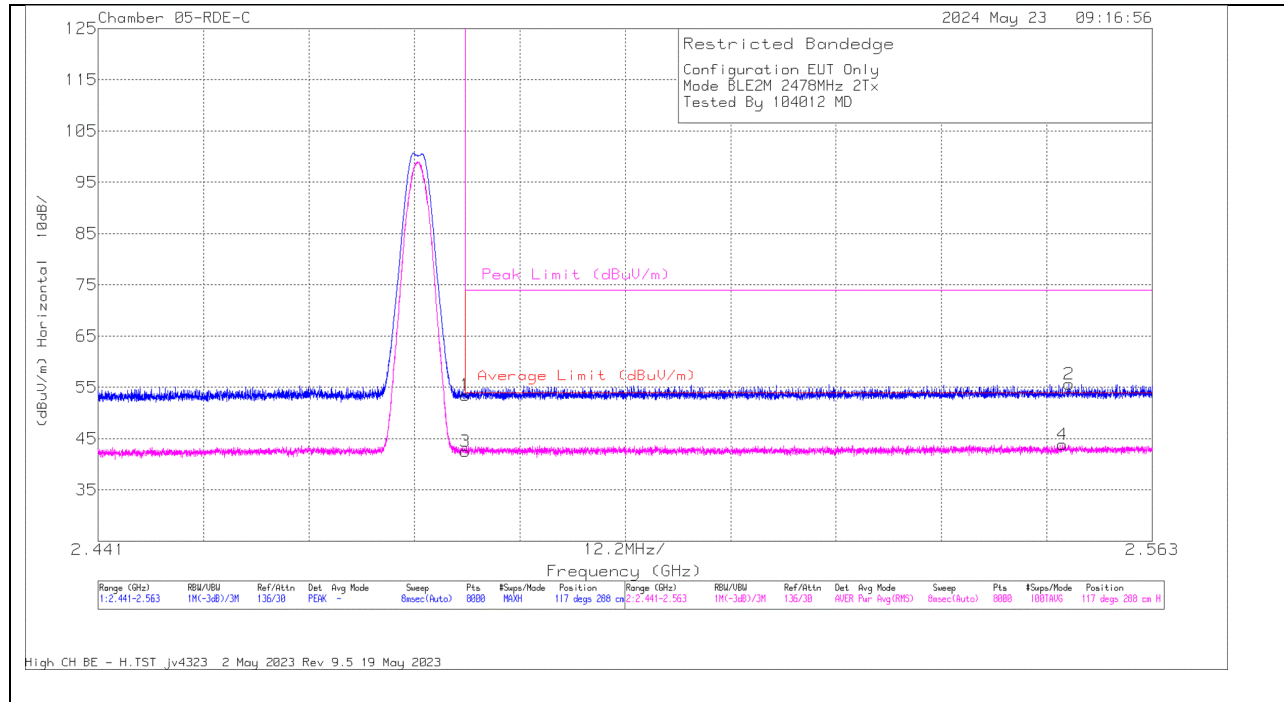


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF 3m (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.313275	63.15	Pk	31.8	-40.3	54.65	-	-	74	-19.35	335	320	V
4	*2.362095	51.28	RMS	32	-40.3	42.98	54	-11.02	-	-	335	320	V
1	*2.39	61.37	Pk	32.1	-40.5	52.97	-	-	74	-21.03	335	320	V
3	*2.39	50.09	RMS	32.1	-40.5	41.69	54	-12.31	-	-	335	320	V

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

Pk - Peak detector

RMS - RMS detection

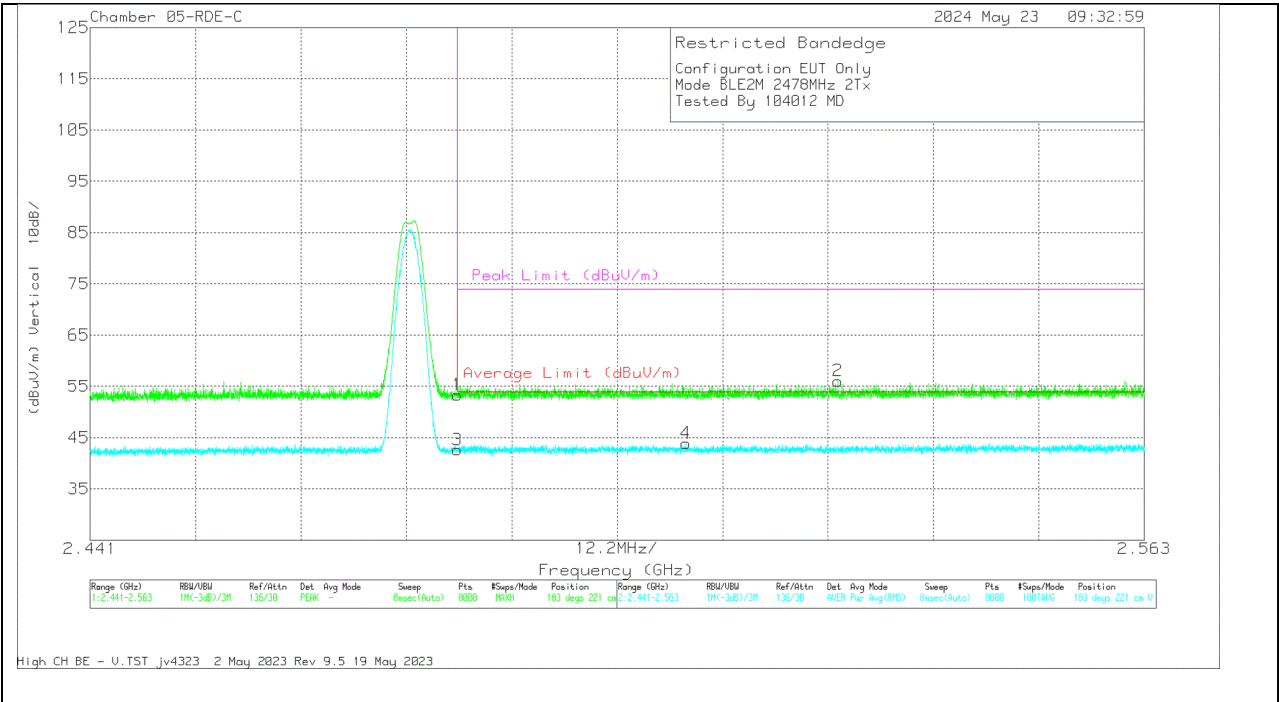
BANDEGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF 3m (dB/m)	Gain/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	61.52	Pk	32.4	-40.45	53.47	-	-	74	-20.53	117	288	H
3	*2.4835	50.56	RMS	32.4	-40.45	42.51	54	-11.49	-	-	117	288	H
4	*2.552599	51.5	RMS	32.6	-40.24	43.86	54	-10.14	-	-	117	288	H
2	*2.553361	63.22	Pk	32.6	-40.2	55.62	-	-	74	-18.38	117	288	H

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

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



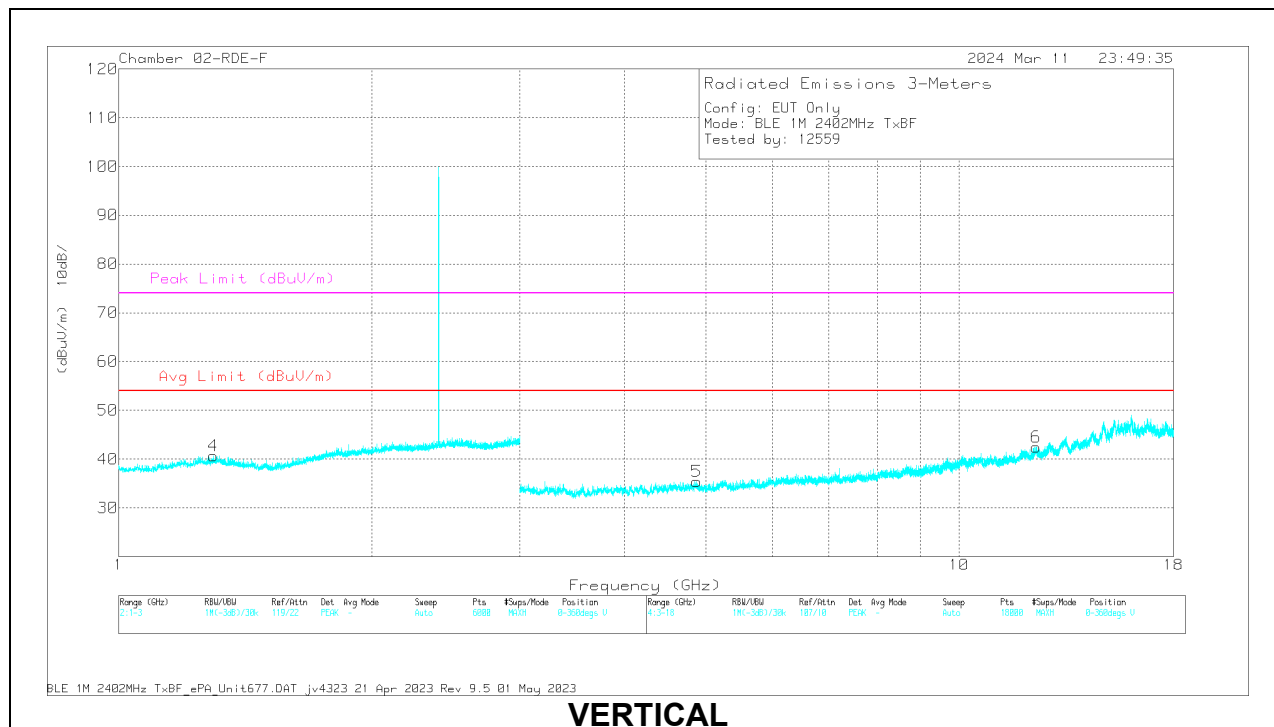
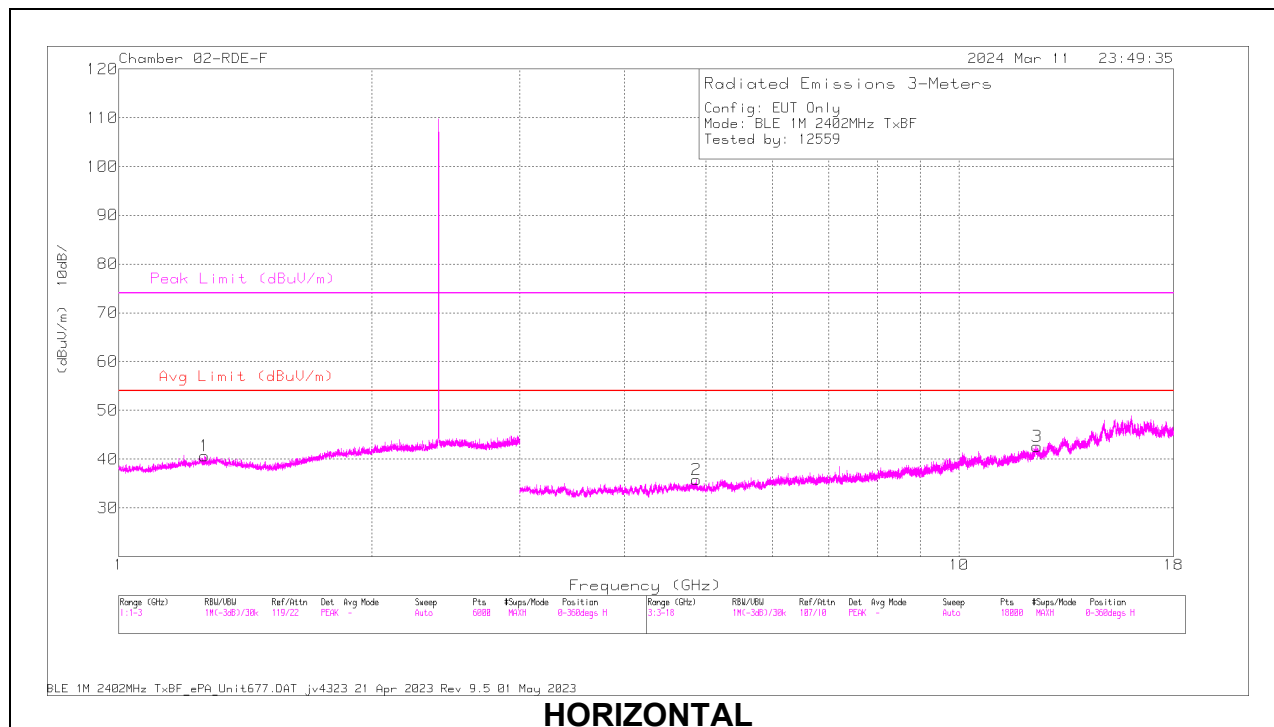
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81887 ACF 3m (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*2.4835	61.4	Pk	32.4	-40.45	53.35	-	-	74	-20.65	183	221	V
3	*2.4835	50.67	RMS	32.4	-40.45	42.62	54	-11.38	-	-	183	221	V
4	*2.509954	51.79	RMS	32.5	-40.4	43.89	54	-10.11	-	-	183	221	V
2	*2.527509	63.77	Pk	32.5	-40.2	56.07	-	-	74	-17.93	183	221	V

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

Pk - Peak detector
RMS - RMS detection

10.2.9. WORST CASE HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

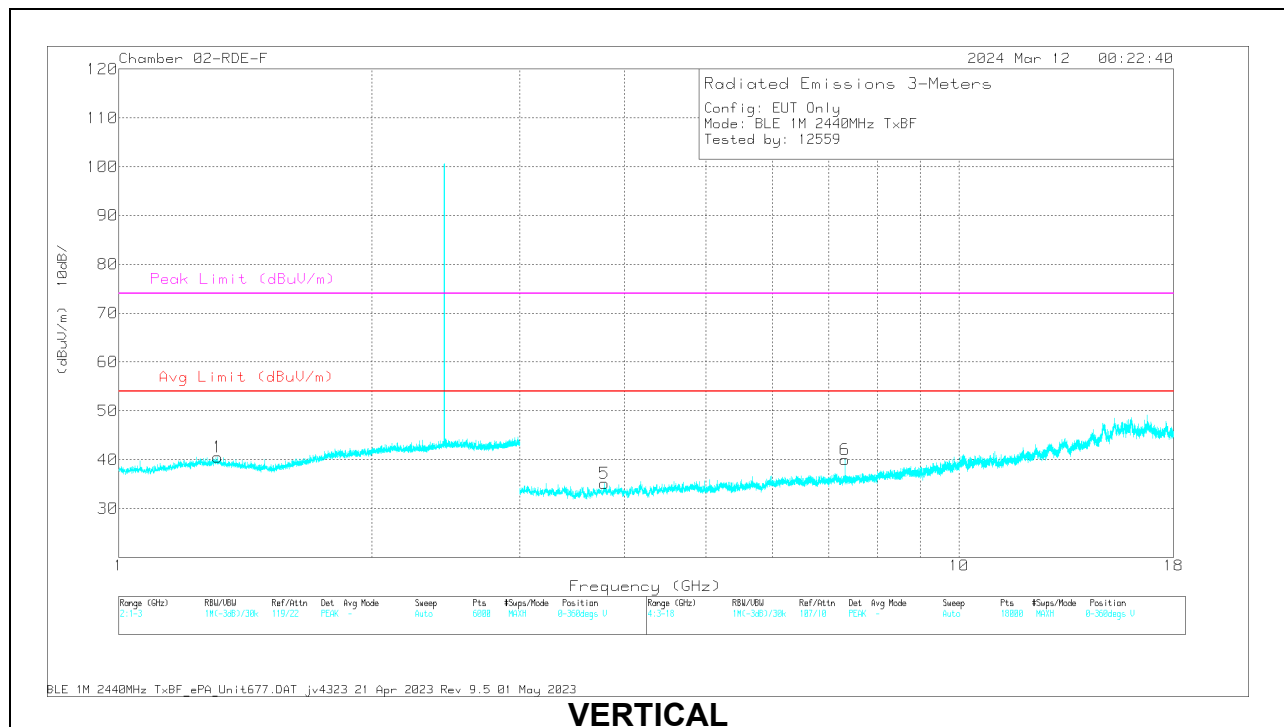
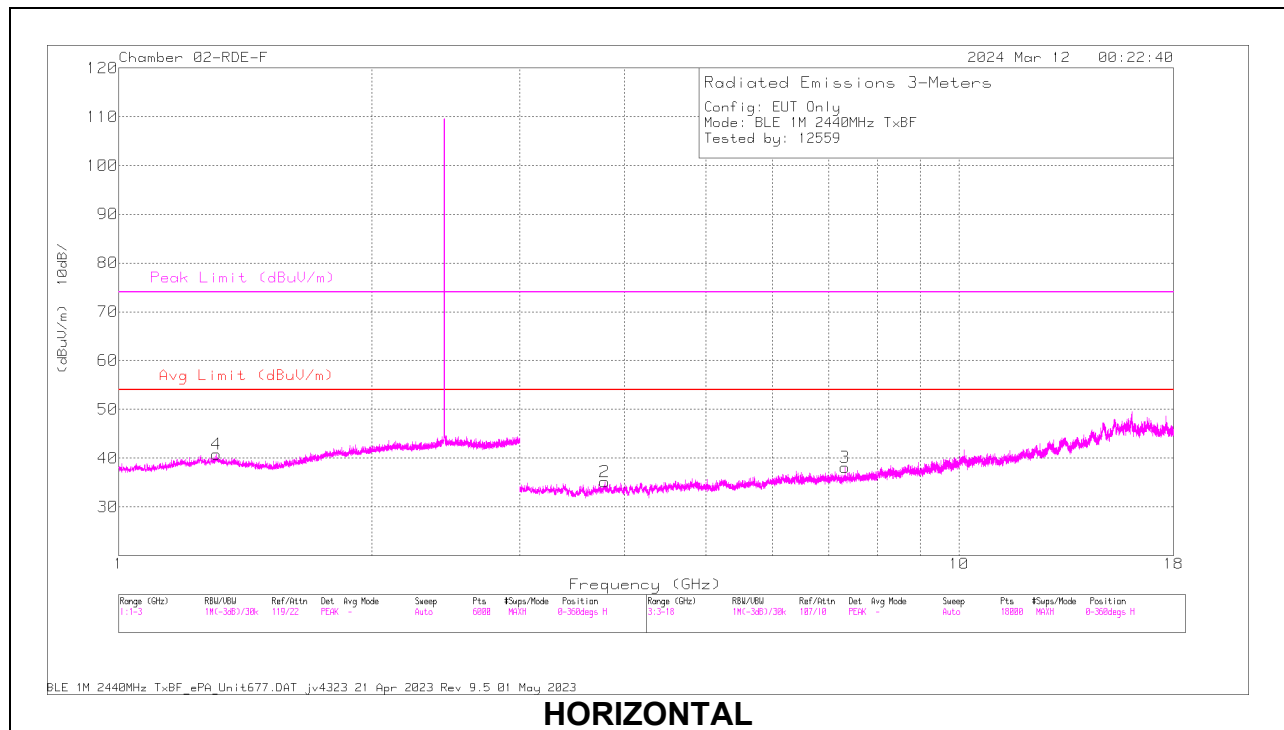
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m) 3mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.265581	60.45	PK2	28.8	-38.4	50.85	-	-	74	-23.15	320	124	H
	* 1.264962	48.12	MAv1	28.8	-38.4	38.52	54	-15.48	-	-	320	124	H
4	* 1.297587	59.8	PK2	28.9	-38.3	50.4	-	-	74	-23.6	355	200	V
	* 1.295023	48.41	MAv1	28.9	-38.3	39.01	54	-14.99	-	-	355	200	V
2	* 4.8726	57.34	PK2	33.9	-45.7	45.54	-	-	74	-28.46	233	319	H
	* 4.873131	45.45	MAv1	33.9	-45.7	33.65	54	-20.35	-	-	233	319	H
3	* 12.388745	54.98	PK2	38.8	-42	51.78	-	-	74	-22.22	175	280	H
	* 12.386437	43.49	MAv1	38.8	-42	40.29	54	-13.71	-	-	175	280	H
5	* 4.873965	57.88	PK2	33.9	-45.7	46.08	-	-	74	-27.92	209	294	V
	* 4.873514	45.34	MAv1	33.9	-45.7	33.54	54	-20.46	-	-	209	294	V
6	* 12.358349	55.24	PK2	38.8	-41.6	52.44	-	-	74	-21.56	311	203	V
	* 12.358871	43.1	MAv1	38.8	-41.6	40.3	54	-13.7	-	-	311	203	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

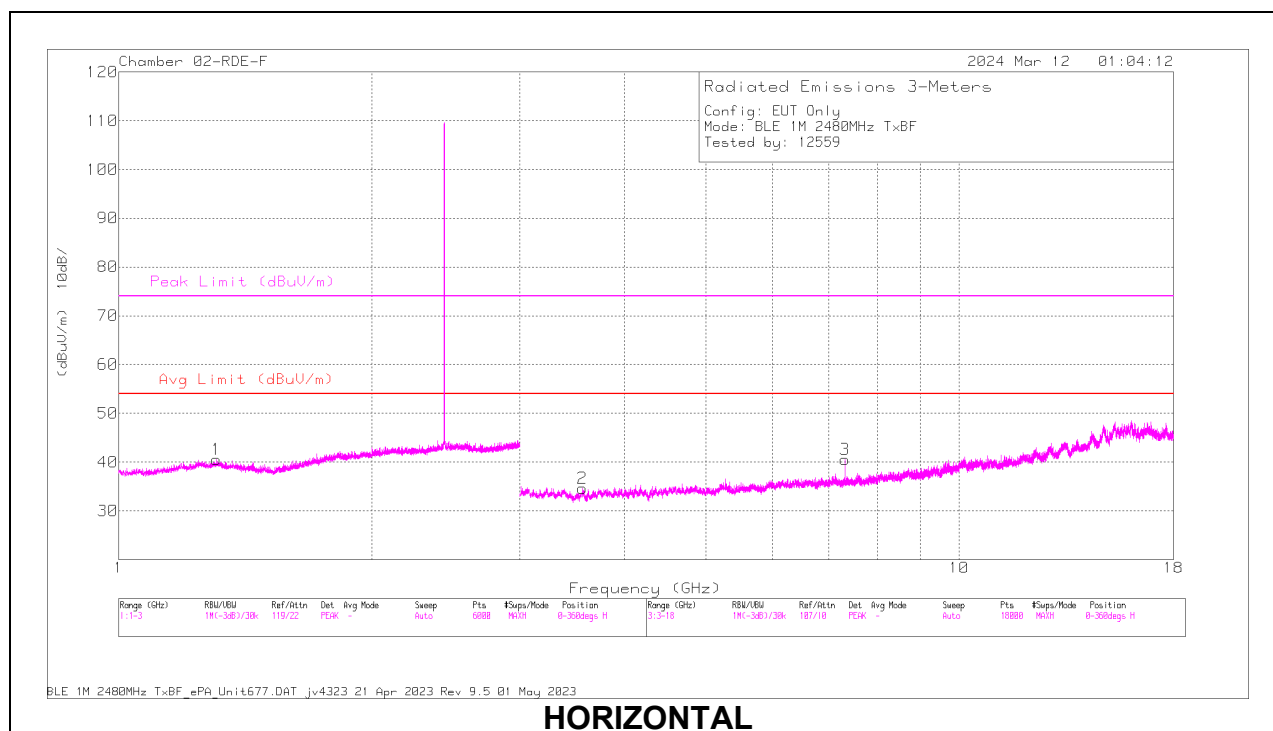
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m) 3mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.307976	59.73	PK2	28.9	-38.3	50.33	-	-	74	-23.67	312	195	H
	* 1.306378	47.99	MAv1	28.9	-38.3	38.59	54	-15.41	-	-	312	195	H
1	* 1.311666	59.67	PK2	28.9	-38.3	50.27	-	-	74	-23.73	170	164	V
	* 1.310289	47.96	MAv1	28.9	-38.3	38.56	54	-15.44	-	-	170	164	V
2	* 3.787579	57.15	PK2	33.3	-45.5	44.95	-	-	74	-29.05	234	247	H
	* 3.787736	45.13	MAv1	33.3	-45.5	32.93	54	-21.07	-	-	234	247	H
3	* 7.319451	57.64	PK2	35.6	-44.3	48.94	-	-	74	-25.06	92	293	H
	* 7.320621	48.16	MAv1	35.6	-44.4	39.36	54	-14.64	-	-	92	293	H
5	* 3.784859	56.44	PK2	33.3	-45.4	44.34	-	-	74	-29.66	274	213	V
	* 3.78405	45.37	MAv1	33.3	-45.4	33.27	54	-20.73	-	-	274	213	V
6	* 7.319197	59.92	PK2	35.6	-44.3	51.22	-	-	74	-22.78	194	101	V
	* 7.320618	46.4	MAv1	35.6	-44.4	37.6	54	-16.4	-	-	194	101	V

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

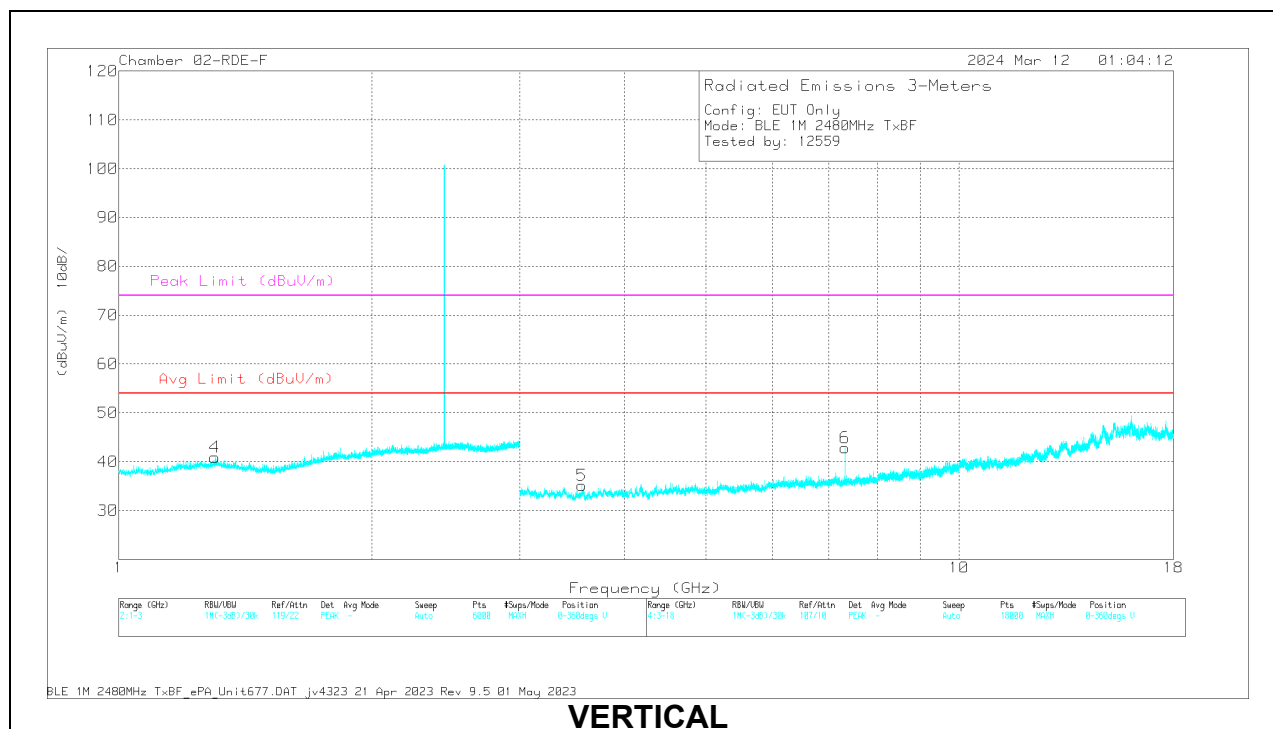
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m) 3mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.305607	59.74	PK2	28.9	-38.3	50.34	-	-	74	-23.66	278	318	H
	* 1.307019	48.06	MAv1	28.9	-38.3	38.66	54	-15.34	-	-	278	318	H
4	* 1.301384	59.37	PK2	28.9	-38.3	49.97	-	-	74	-24.03	260	216	V
	* 1.300462	48.19	MAv1	28.9	-38.3	38.79	54	-15.21	-	-	260	216	V
3	* 7.319211	58.05	PK2	35.6	-44.3	49.35	-	-	74	-24.65	128	114	H
	* 7.319399	49.43	MAv1	35.6	-44.3	40.73	54	-13.27	-	-	128	114	H
2	* 3.563713	56.96	PK2	32.8	-45.5	44.26	-	-	74	-29.74	176	294	H
	* 3.56213	45.09	MAv1	32.8	-45.4	32.49	54	-21.51	-	-	176	294	H
6	* 7.320848	58.29	PK2	35.6	-44.4	49.49	-	-	74	-24.51	80	111	V
	* 7.319461	49.49	MAv1	35.6	-44.3	40.79	54	-13.21	-	-	80	111	V
5	* 3.558263	56.88	PK2	32.8	-45.3	44.38	-	-	74	-29.62	231	172	V
	* 3.556511	45.19	MAv1	32.8	-45.4	32.59	54	-21.41	-	-	231	172	V

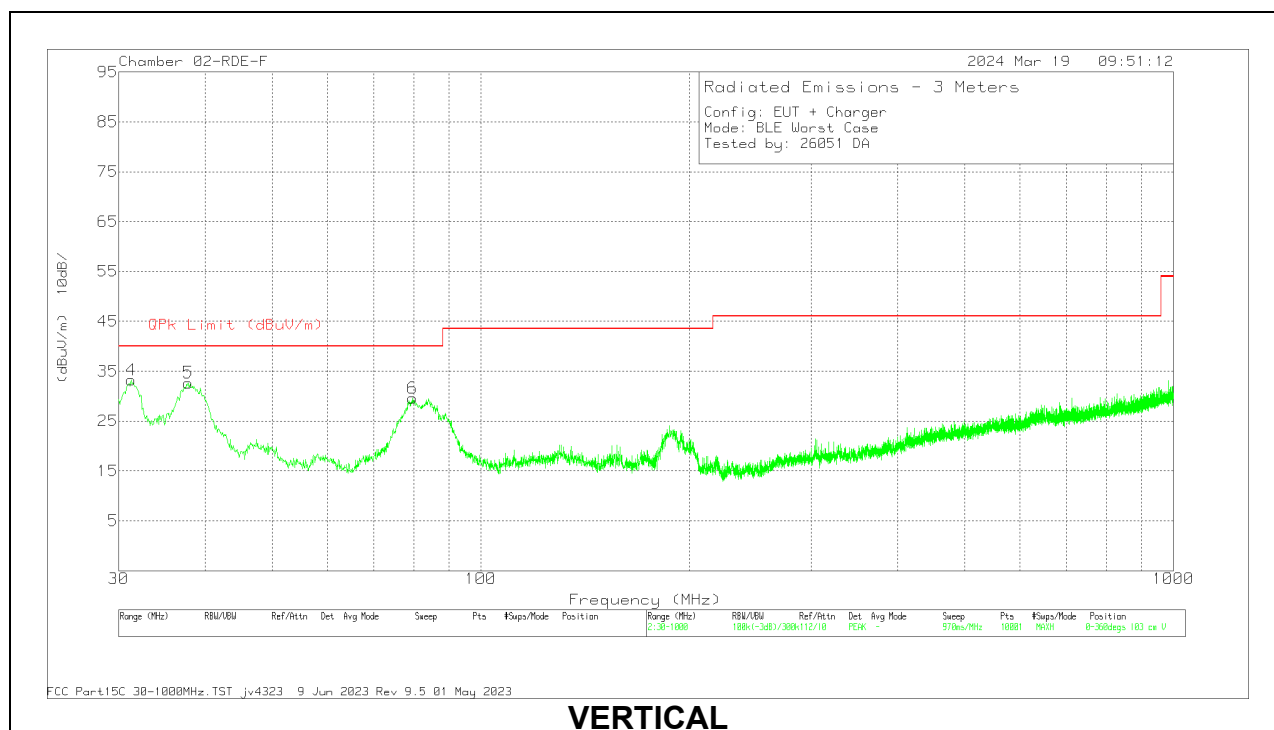
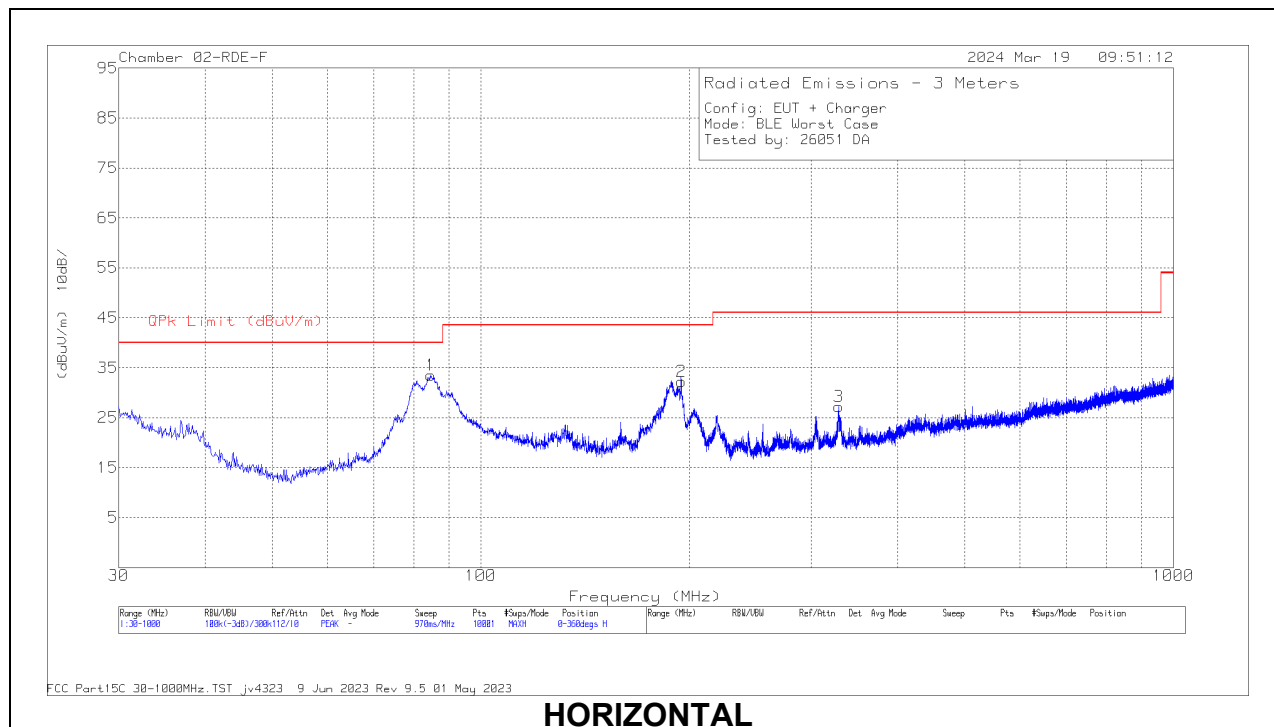
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.3. WORST CASE BELOW 1 GHz

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



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230634 ACF (dB/m) 10m H	CBL/AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 328.76	37.57	Pk	19.6	-29.9	27.27	46.02	-18.75	0-360	103	H
5	* 37.76	43.48	Pk	21	-31.8	32.68	40	-7.32	0-360	103	V
4	31.261	39.04	Pk	25.9	-31.7	33.24	40	-6.76	0-360	103	V
	31.3923	35.13	Qp	25.8	-31.7	29.23	40	-10.77	229	116	V
6	79.761	47.56	Pk	13.4	-31.4	29.56	40	-10.44	0-360	103	V
1	84.708	51.43	Pk	13.2	-31.1	33.53	40	-6.47	0-360	199	H
	84.204	47.46	Qp	13.2	-31	29.66	40	-10.34	55	229	H
2	194.803	44.98	Pk	17.6	-30.3	32.28	43.52	-11.24	0-360	103	H

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

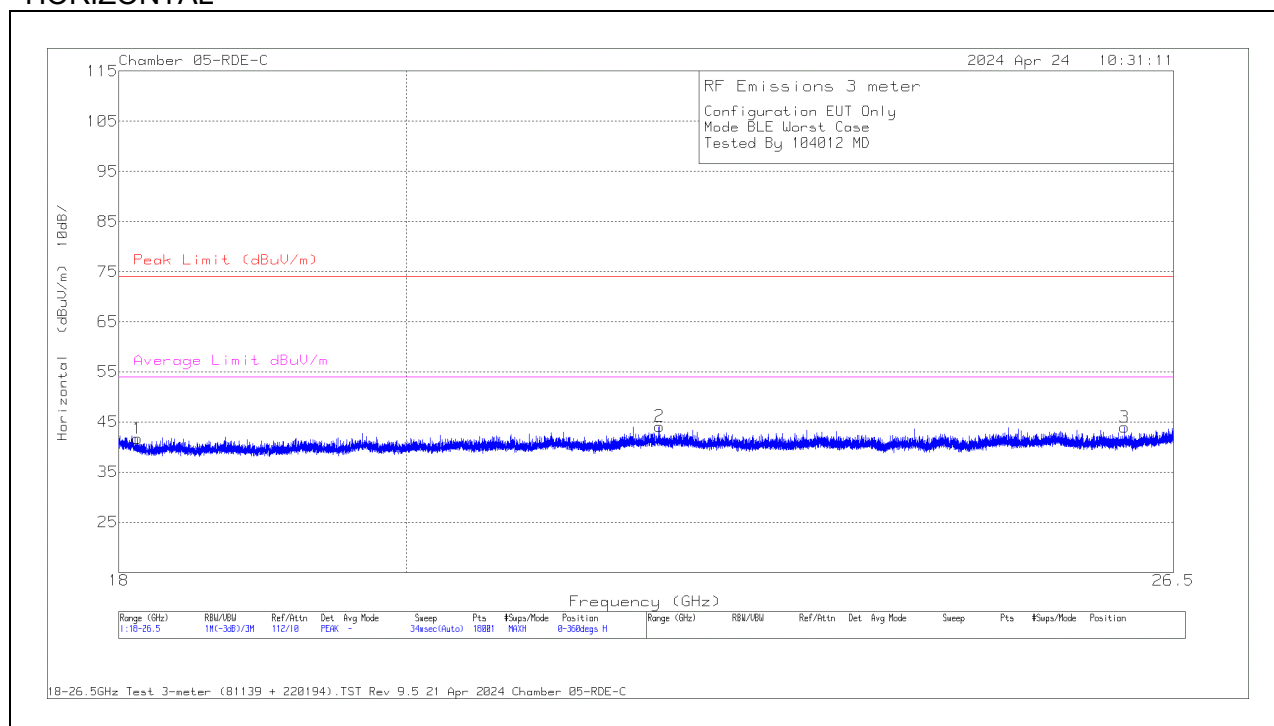
Pk - Peak detector

Qp - Quasi-Peak detector

10.4. WORST CASE 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	81139 ACF (dBm)	Amp/Cbl (dB)	Cables (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	18.058083	59.76	Pk	32.6	-61.7	12.5	43.16	74	-30.84	54	-10.84	0-360	200	V
1	18.12325	58.61	Pk	32.6	-62	12.5	41.71	74	-32.29	54	-12.29	0-360	101	H
5	21.649804	57.72	Pk	33.4	-61.2	13.7	43.62	74	-30.38	54	-10.38	0-360	101	V
2	21.946359	58.16	Pk	33.5	-61.2	13.7	44.16	74	-29.84	54	-9.84	0-360	200	H
6	25.328413	55.68	Pk	34.3	-61.4	14.8	43.38	74	-30.62	54	-10.62	0-360	200	V
3	26.03108	55.82	Pk	34.4	-61.2	15	44.02	74	-29.98	54	-9.98	0-360	101	H

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

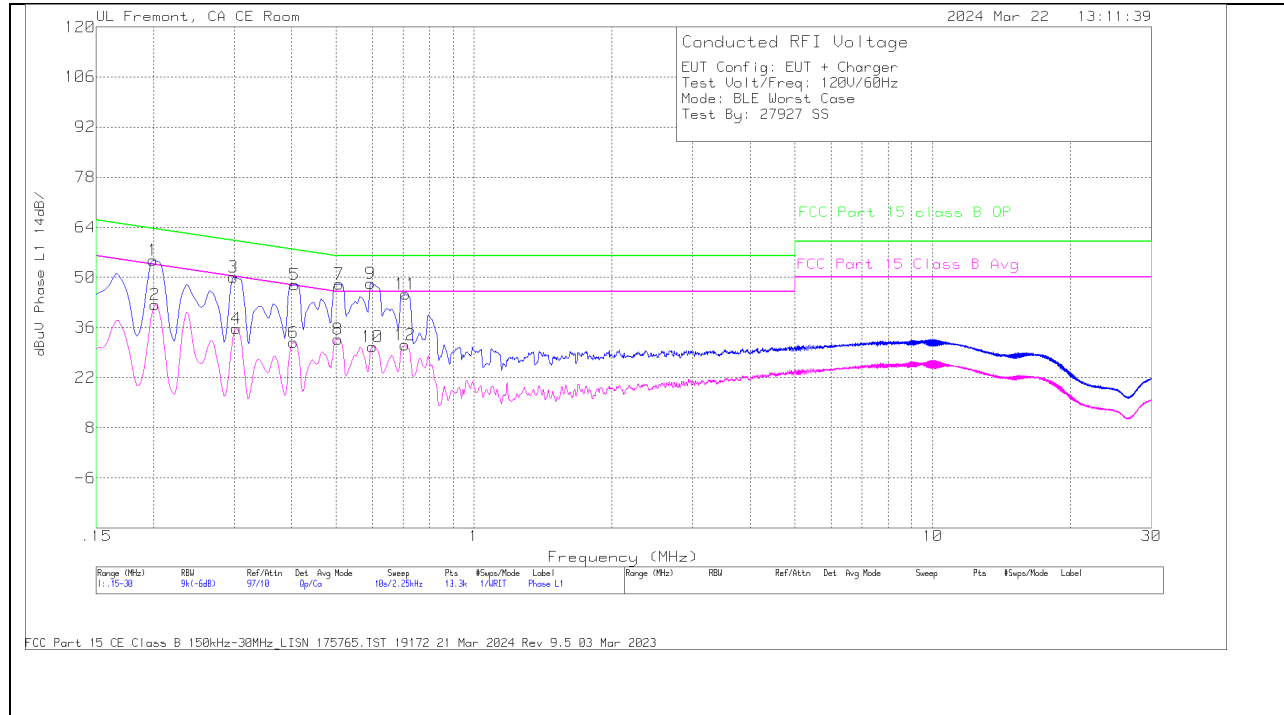
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line WITH AC/DC ADAPTER

LINE 1 RESULTS

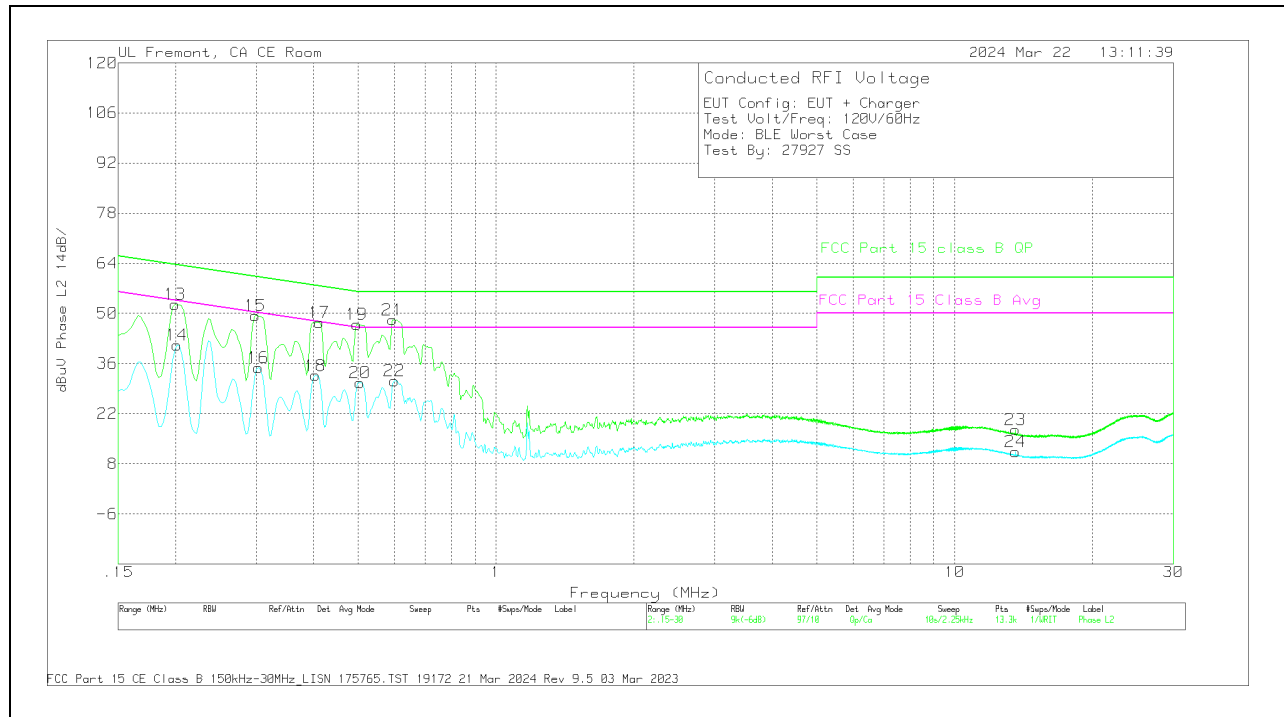


Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trms Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
2	.2018	22.89	Ca	.1	0	9.4	10	42.39	53.54	-11.15	-	-
4	.303	16.26	Ca	.1	0	9.4	10	35.76	50.16	-14.4	-	-
6	.4043	12.39	Ca	0	0	9.4	10	31.79	47.77	-15.98	-	-
8	.5055	13.42	Ca	0	0	9.3	10	32.72	46	-13.28	-	-
10	.6	11.3	Ca	0	0	9.4	10	30.7	46	-15.3	-	-
12	.708	11.77	Ca	.1	0	9.3	10	31.17	46	-14.83	-	-
1	.1995	35.24	Qp	.1	.1	9.4	10	54.84	-	-	63.63	-8.79
3	.2985	30.59	Qp	.1	0	9.4	10	50.09	-	-	60.28	-10.19
5	.4065	28.59	Qp	0	0	9.4	10	47.99	-	-	57.72	-9.73
7	.5078	28.85	Qp	0	0	9.3	10	48.15	-	-	56	-7.85
9	.5955	28.9	Qp	0	0	9.4	10	48.3	-	-	56	-7.7
11	.7103	26	Qp	.1	0	9.3	10	45.4	-	-	56	-10.6

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



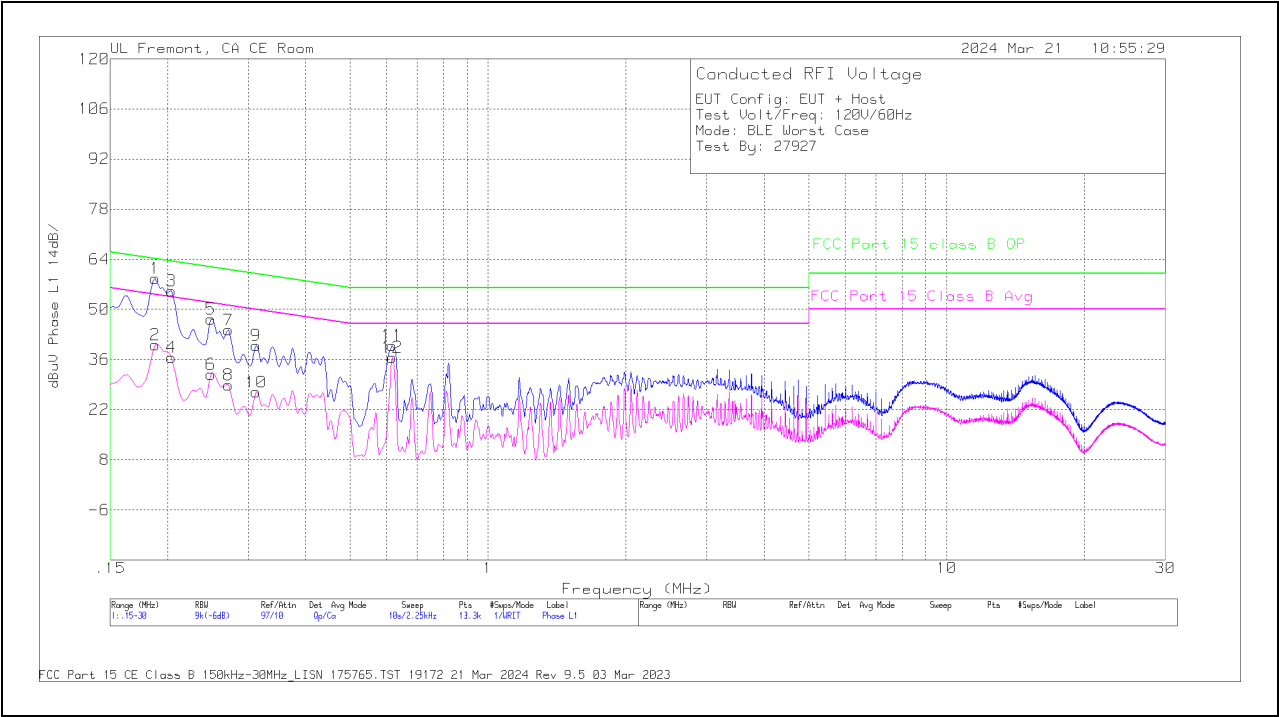
Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Trms Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
14	.2018	21.65	Ca	.1	0	9.4	10	41.15	53.54	-12.39	-	-
16	.303	15.38	Ca	.1	0	9.4	10	34.88	50.16	-15.28	-	-
18	.4043	13.15	Ca	.1	0	9.4	10	32.65	47.77	-15.12	-	-
20	.5055	11.4	Ca	0	0	9.3	10	30.7	46	-15.3	-	-
22	.6	11.67	Ca	.1	0	9.4	10	31.17	46	-14.83	-	-
24	13.56	-8.41	Ca	.2	.1	9.5	10	11.39	50	-38.61	-	-
13	.1995	33.04	Qp	.1	0	9.4	10	52.54	-	-	63.63	-11.09
15	.2985	29.95	Qp	.1	0	9.4	10	49.45	-	-	60.28	-10.83
17	.4121	28	Qp	.1	0	9.4	10	47.5	-	-	57.61	-10.11
19	.4965	27.6	Qp	0	0	9.3	10	46.9	-	-	56.06	-9.16
21	.5955	28.74	Qp	.1	0	9.4	10	48.24	-	-	56	-7.76
23	13.56	-2.23	Qp	.2	.1	9.5	10	17.57	-	-	60	-42.43

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC POWER LINE WITH LAPTOP

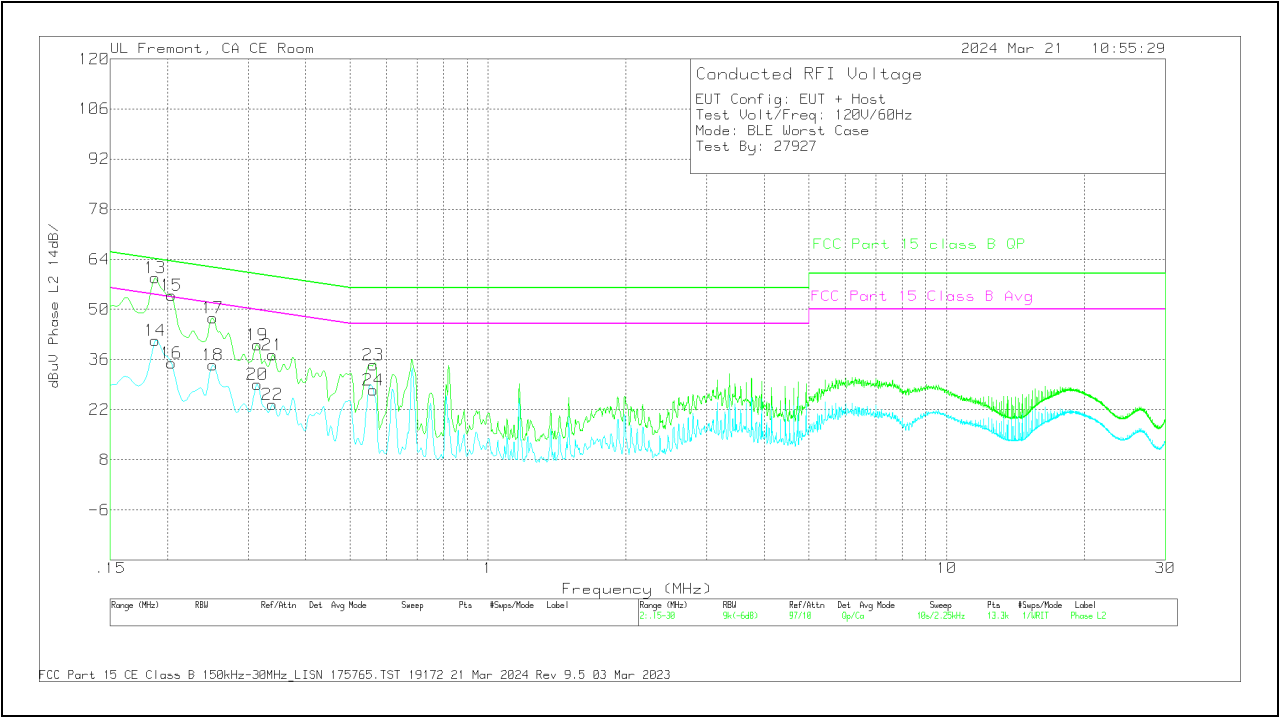
LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Tms Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
2	.1883	20.47	Ca	.1	.1	9.4	10	40.07	54.11	-14.04	-	-
4	.204	17.14	Ca	.1	0	9.4	10	36.64	53.45	-16.81	-	-
6	.249	12.47	Ca	0	0	9.4	10	31.87	51.79	-19.92	-	-
8	.2715	9.5	Ca	0	0	9.4	10	28.9	51.07	-22.17	-	-
10	.312	7.38	Ca	.1	0	9.4	10	26.88	49.92	-23.04	-	-
12	.618	17.2	Ca	0	0	9.4	10	36.6	46	-9.4	-	-
1	.1883	39.11	Qp	.1	.1	9.4	10	58.71	-	-	64.11	-5.4
3	.204	35.61	Qp	.1	0	9.4	10	55.11	-	-	63.45	-8.34
5	.249	27.83	Qp	0	0	9.4	10	47.23	-	-	61.79	-14.56
7	.2715	24.82	Qp	0	0	9.4	10	44.22	-	-	61.07	-16.85
9	.312	20.38	Qp	.1	0	9.4	10	39.88	-	-	59.92	-20.04
11	.618	20.49	Qp	0	0	9.4	10	39.89	-	-	56	-16.11

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	Tms Limiter (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
14	.1883	21.8	Ca	.1	0	9.4	10	41.3	54.11	-12.81	-	-
16	.204	15.55	Ca	.1	0	9.4	10	35.05	53.45	-18.4	-	-
18	.2513	15.13	Ca	0	0	9.4	10	34.53	51.72	-17.19	-	-
20	.3143	9.63	Ca	.1	0	9.4	10	29.13	49.86	-20.73	-	-
22	.339	3.97	Ca	.1	0	9.4	10	23.47	49.23	-25.76	-	-
24	.5618	8.23	Ca	0	0	9.3	10	27.53	46	-18.47	-	-
13	.1883	39.39	Qp	.1	0	9.4	10	58.89	-	-	64.11	-5.22
15	.204	34.51	Qp	.1	0	9.4	10	54.01	-	-	63.45	-9.44
17	.2513	28.18	Qp	0	0	9.4	10	47.58	-	-	61.72	-14.14
19	.3143	20.62	Qp	.1	0	9.4	10	40.12	-	-	59.86	-19.74
21	.339	17.8	Qp	.1	0	9.4	10	37.3	-	-	59.23	-21.93
23	.5618	15.16	Qp	0	0	9.3	10	34.46	-	-	56	-21.54

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to setup photos 14982436-EP1V1

END OF TEST REPORT