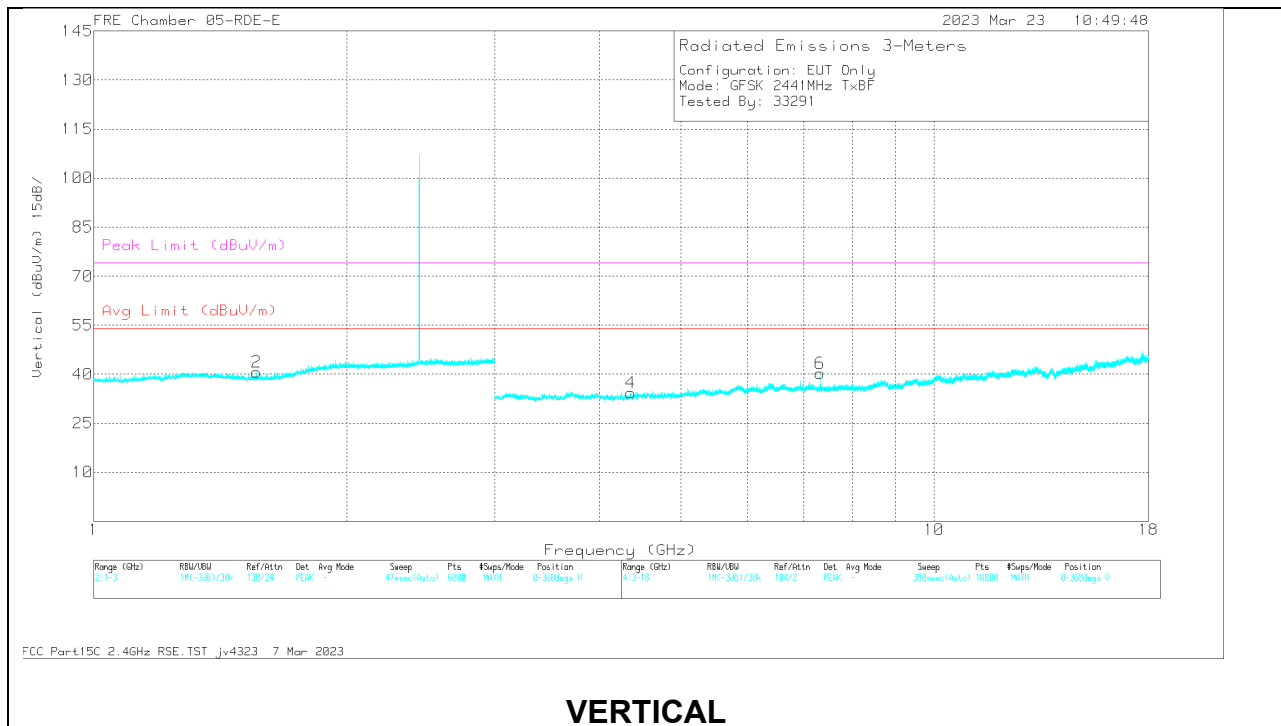
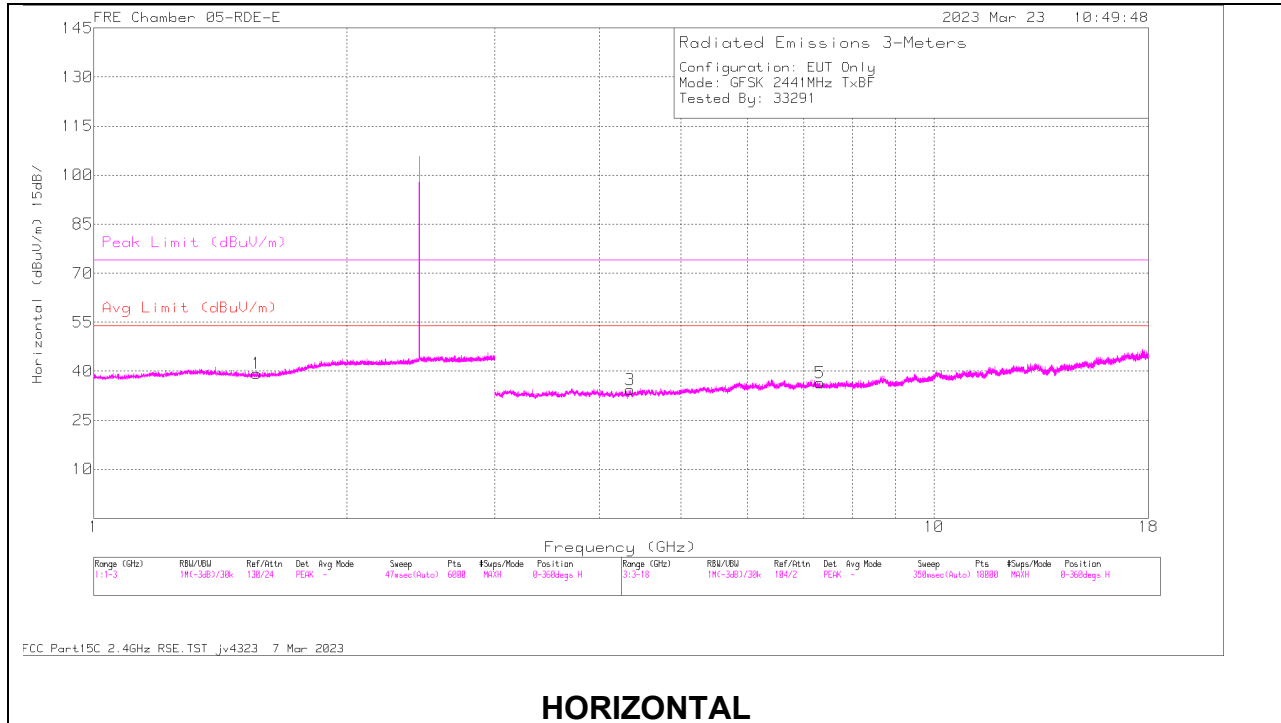


MID CHANNEL RESULTS

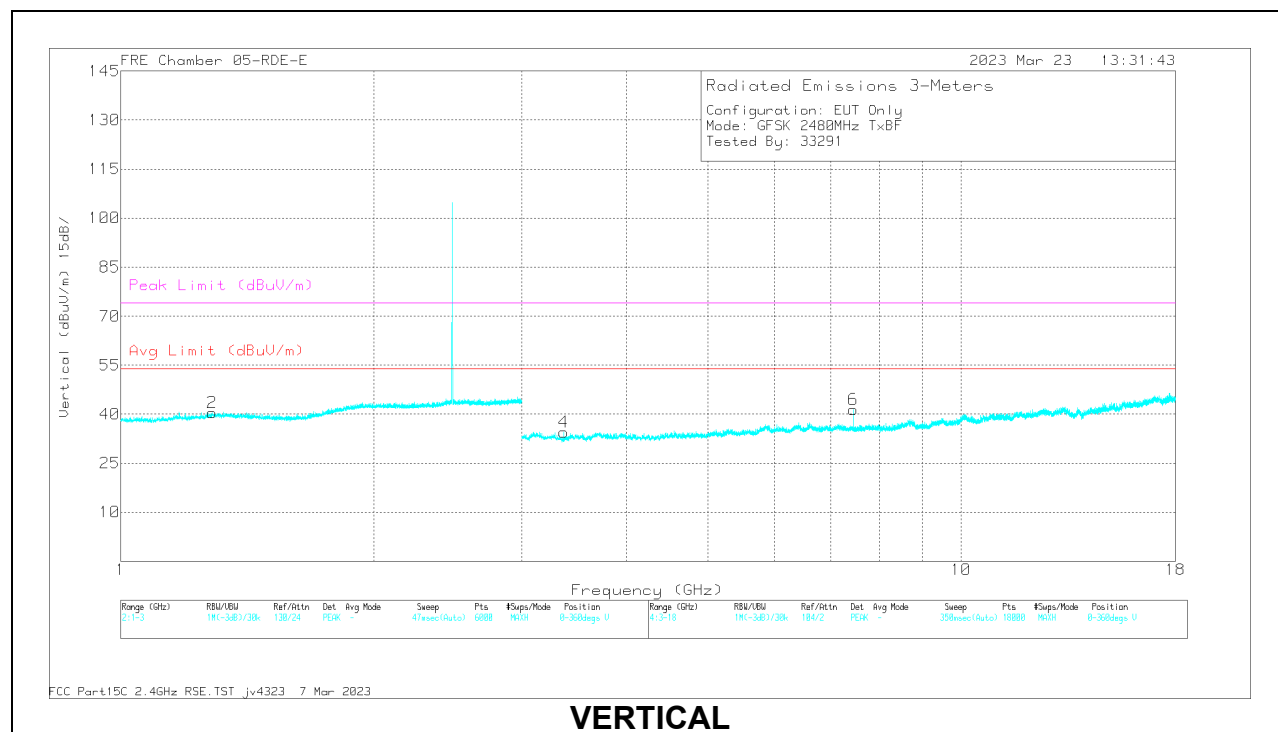
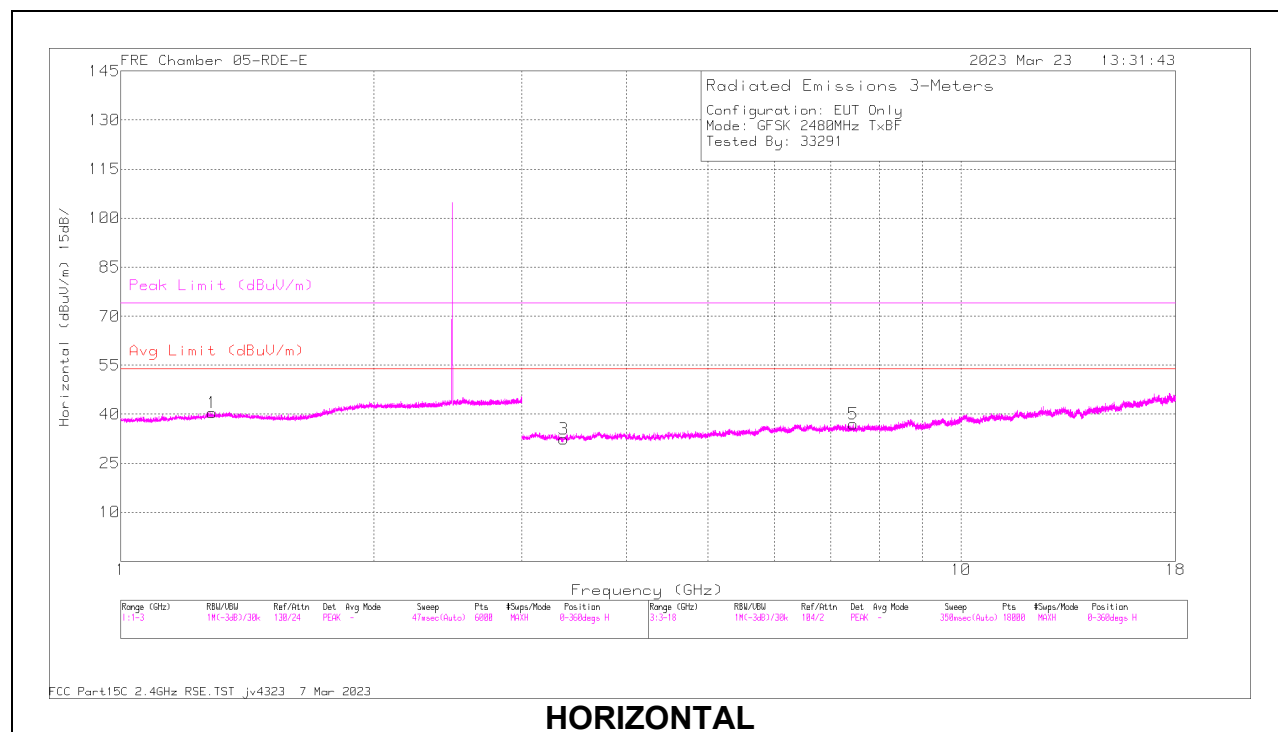


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.561668	60.92	PKFH	27.9	-40.42	48.4	-	-	74	-25.6	0	101	V
	1.56238	46.51	VA1T	27.9	-40.42	33.99	54	-20.01	-	-	0	101	V
1	1.564264	59.55	PKFH	27.9	-40.42	47.03	-	-	74	-26.97	0	200	H
	1.565053	46.53	VA1T	27.9	-40.43	34	54	-20	-	-	0	200	H
3	4.34671	42.69	VA1T	33.5	-47.48	28.71	54	-25.29	-	-	347	205	H
	4.349389	56.48	PKFH	33.5	-47.49	42.49	-	-	74	-31.51	347	205	H
4	4.353508	56.19	PKFH	33.5	-47.52	42.17	-	-	74	-31.83	232	180	V
	4.353781	42.7	VA1T	33.5	-47.53	28.67	54	-25.33	-	-	232	180	V
6	7.322713	58.28	PKFH	35.7	-46.32	47.66	-	-	74	-26.34	126	238	V
	7.322961	48.57	VA1T	35.7	-46.31	37.96	54	-16.04	-	-	126	238	V
5	7.323995	54.9	PKFH	35.7	-46.29	44.31	-	-	74	-29.69	198	313	H
	7.322875	41.82	VA1T	35.7	-46.31	31.21	54	-22.79	-	-	198	313	H

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

HIGH CHANNEL RESULTS



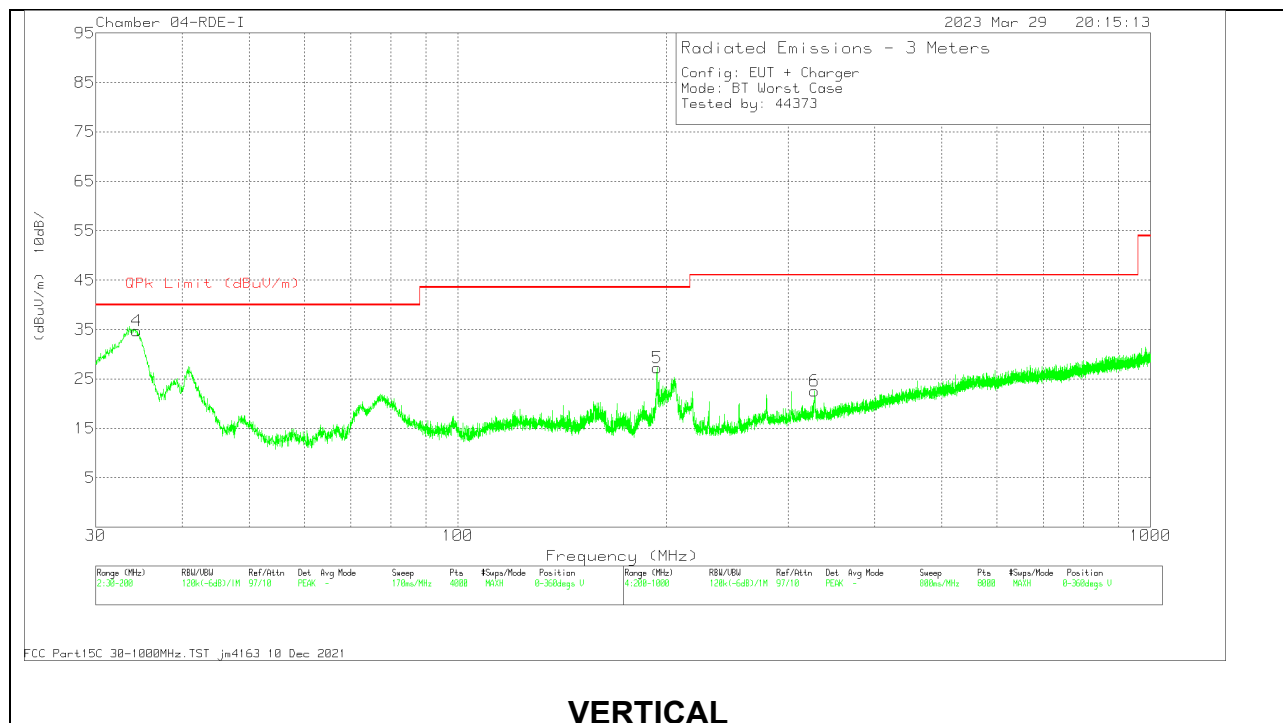
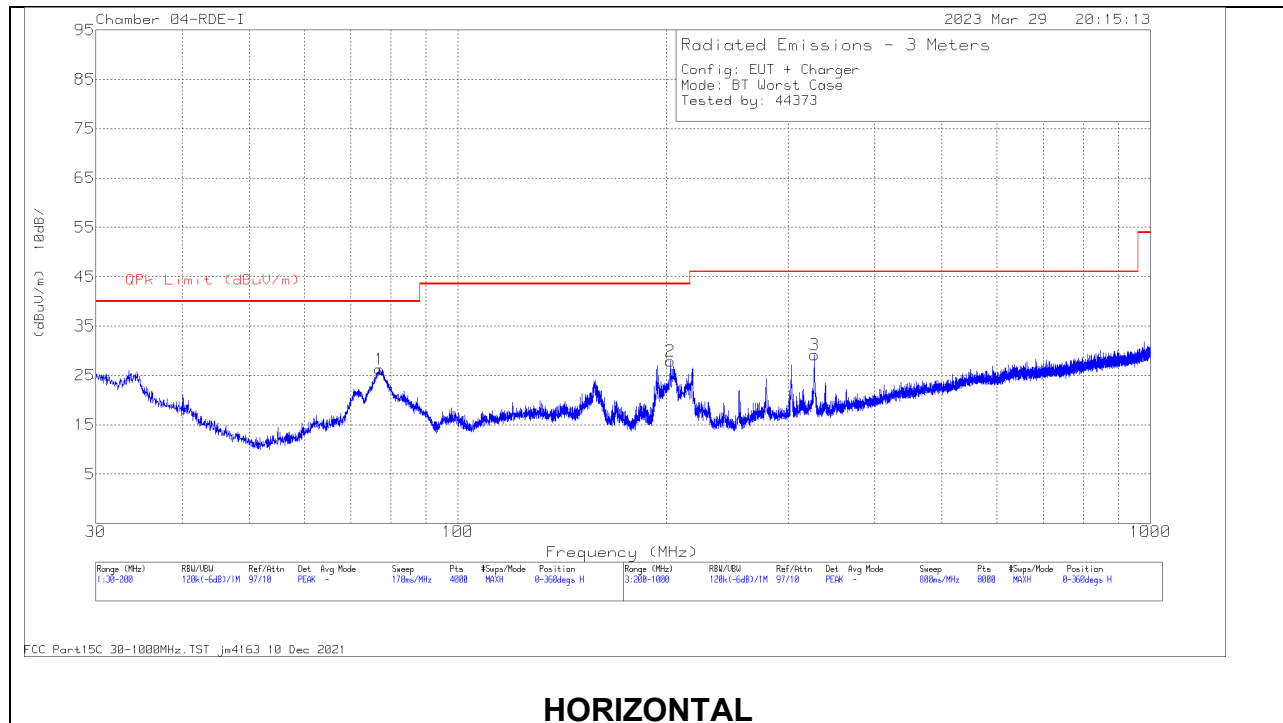
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.282836	47.14	VA1T	28.7	-40.78	35.06	54	-18.94	-	-	105	271	V
	1.283035	60.8	PKFH	28.7	-40.78	48.72	-	-	74	-25.28	105	271	V
1	1.284439	47.16	VA1T	28.7	-40.77	35.09	54	-18.91	-	-	215	226	H
	1.285653	60.31	PKFH	28.7	-40.75	48.26	-	-	74	-25.74	215	226	H
3	3.364731	55.15	PKFH	32.7	-46.82	41.03	-	-	74	-32.97	105	199	H
	3.368669	42	VA1T	32.7	-46.86	27.84	-	-	-	-	105	199	H
4	3.366181	55.19	PKFH	32.7	-46.76	41.13	-	-	74	-32.87	86	183	V
	3.367839	41.96	VA1T	32.7	-46.8	27.86	-	-	-	-	86	183	V
6	7.438759	48.28	VA1T	35.7	-46.44	37.54	54	-16.46	-	-	116	171	V
	7.438807	57.72	PKFH	35.7	-46.44	46.98	-	-	74	-27.02	116	171	V
5	7.440879	55.37	PKFH	35.7	-46.31	44.76	-	-	74	-29.24	217	372	H
	7.438799	41.79	VA1T	35.7	-46.44	31.05	54	-22.95	-	-	217	372	H

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)



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80714 ACF (dB) - 10mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	77.1447	42.68	Pk	14.4	-30.8	26.28	40	-13.72	0-360	299	H
4	34.3786	41.22	Pk	24.6	-31.1	34.72	40	-5.28	0-360	100	V
	34.033	39.65	Qp	24.8	-31.1	33.35	40	-6.65	356	101	V
5	194.092	39.38	Pk	17.9	-30	27.28	43.52	-16.24	0-360	100	V
2	202.6	40.4	Pk	17.6	-30.1	27.9	43.52	-15.62	0-360	100	H
3	* 327.417	38.94	Pk	19.7	-29.5	29.14	46.02	-16.88	0-360	100	H
6	* 327.617	32.34	Pk	19.7	-29.5	22.54	46.02	-23.48	0-360	101	V

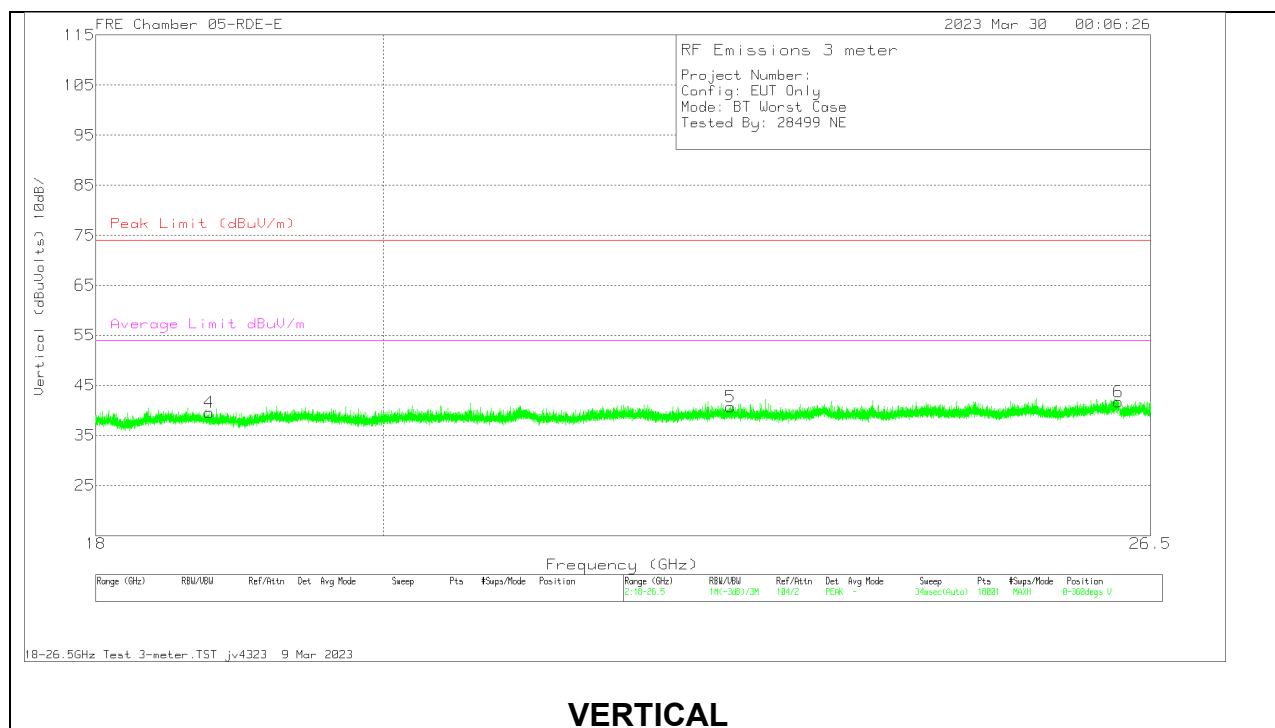
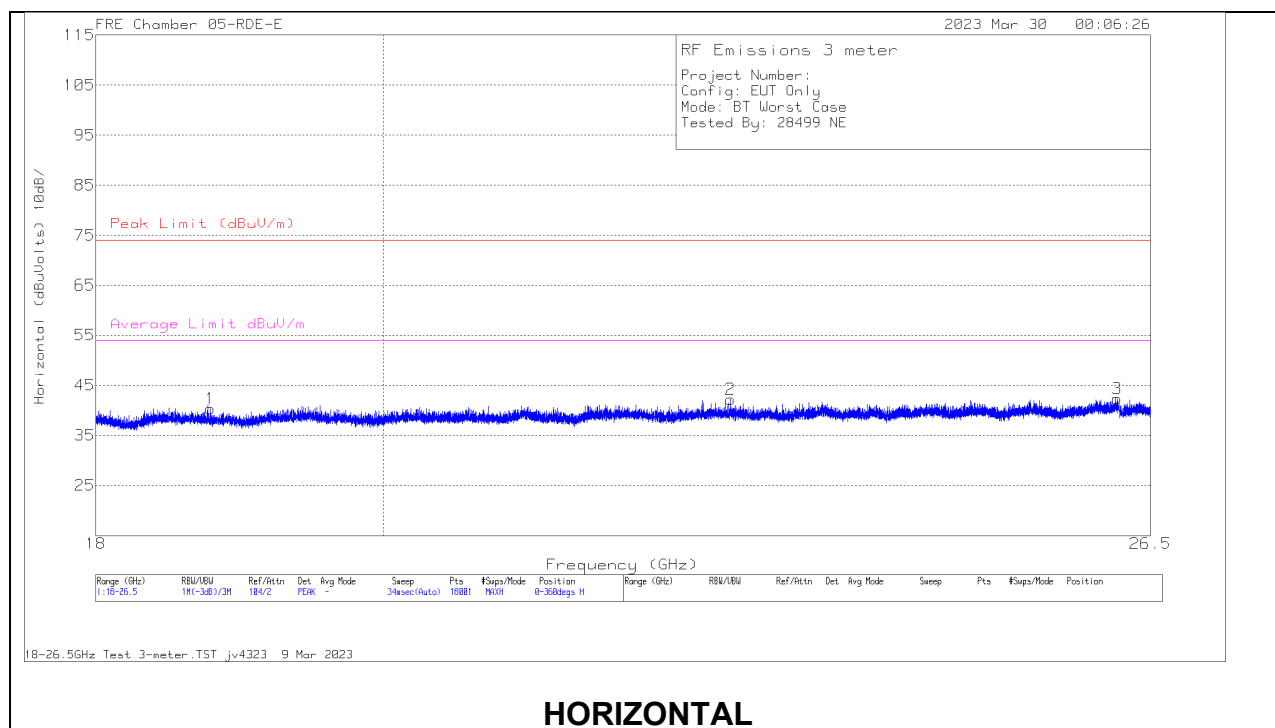
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK – Peak Detector

Qp - Quasi-Peak detector

10.3. WORST CASE 18-26 GHZ

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



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn ACF (dB/m)	amp/cbl (dB)	CBL/ SWITCH	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	18.762639	56.82	Pk	32.1	-62.4	13.1	39.62	74	-34.38	54	-14.38	0-360	199	V
1	18.771139	57.57	Pk	32.1	-62.4	13.1	40.37	74	-33.63	54	-13.63	0-360	101	H
2	22.718914	56.73	Pk	33.1	-62	14.4	42.23	74	-31.77	54	-11.77	0-360	101	H
5	22.720331	55.24	Pk	33.1	-62	14.4	40.74	74	-33.26	54	-13.26	0-360	101	V
3	26.180302	54.26	Pk	33.8	-61.3	15.6	42.36	74	-31.64	54	-11.64	0-360	200	H
6	26.192107	53.51	Pk	33.8	-61.3	15.7	41.71	74	-32.29	54	-12.29	0-360	101	V

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.

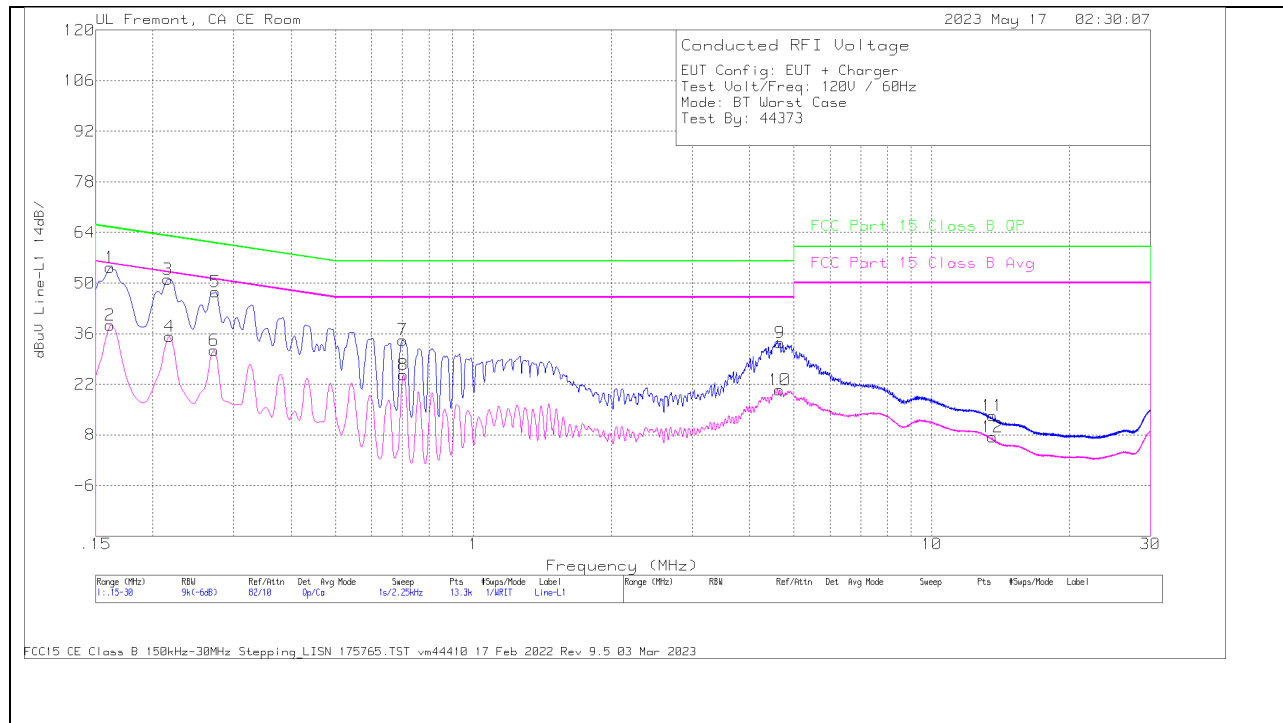
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1. AC Power Line With AC/DC Adapter

LINE 1 RESULTS

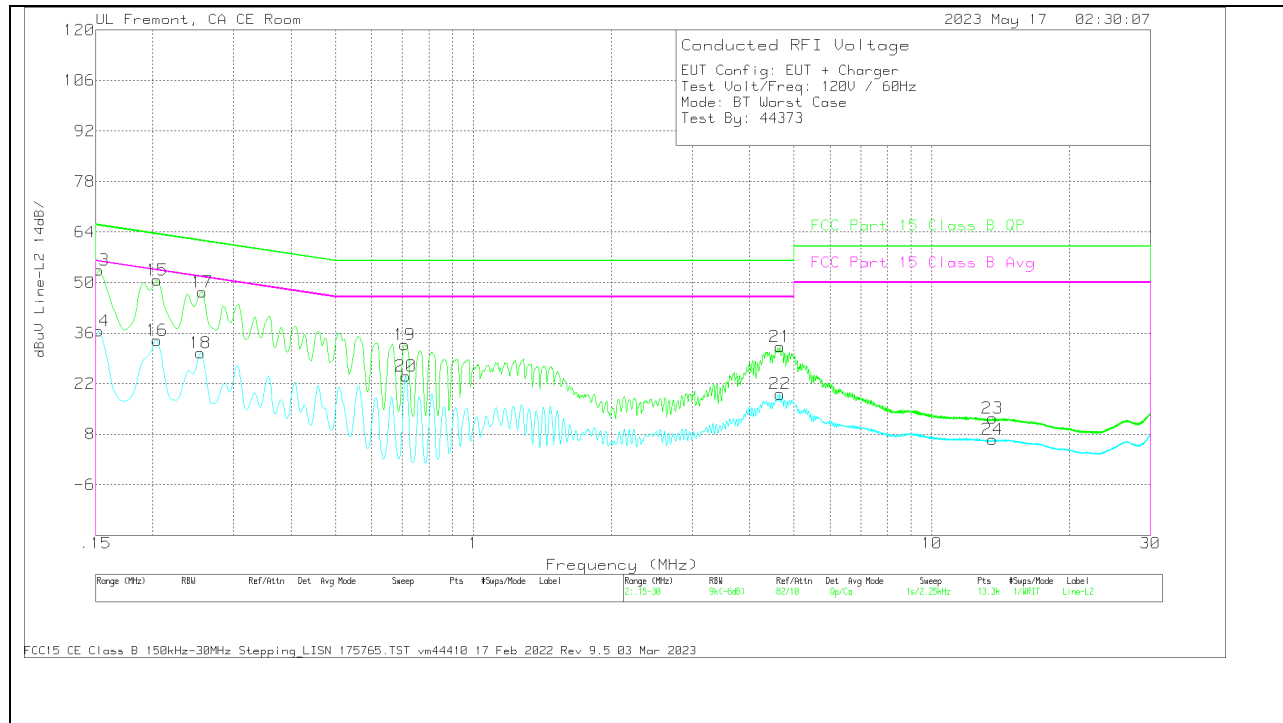


Range 1: Line-L1 15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv dB	C1&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
2	.1613	28.91	Ca	0	0	9.4	38.31	-	-	55.4	-17.09
4	.2175	25.99	Ca	0	0	9.3	35.29	-	-	52.91	-17.62
6	.2715	22.11	Ca	0	0	9.3	31.41	-	-	51.07	-19.66
8	.7035	15.16	Ca	0	.1	9.3	24.56	-	-	46	-21.44
10	4.659	10.99	Ca	0	.1	9.3	20.39	-	-	46	-25.61
12	13.56	-2.17	Ca	.1	.2	9.3	7.43	-	-	50	-42.57
1	.1613	44.92	Qp	0	0	9.4	54.32	65.4	-11.08	-	-
3	.2153	41.72	Qp	0	0	9.3	51.02	63	-11.98	-	-
5	.2738	38.22	Qp	0	0	9.3	47.52	61	-13.48	-	-
7	.7013	24.87	Qp	0	.1	9.3	34.27	56	-21.73	-	-
9	4.6613	24.01	Qp	0	.1	9.3	33.41	56	-22.59	-	-
11	13.56	3.65	Qp	.1	.2	9.3	13.25	60	-46.75	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

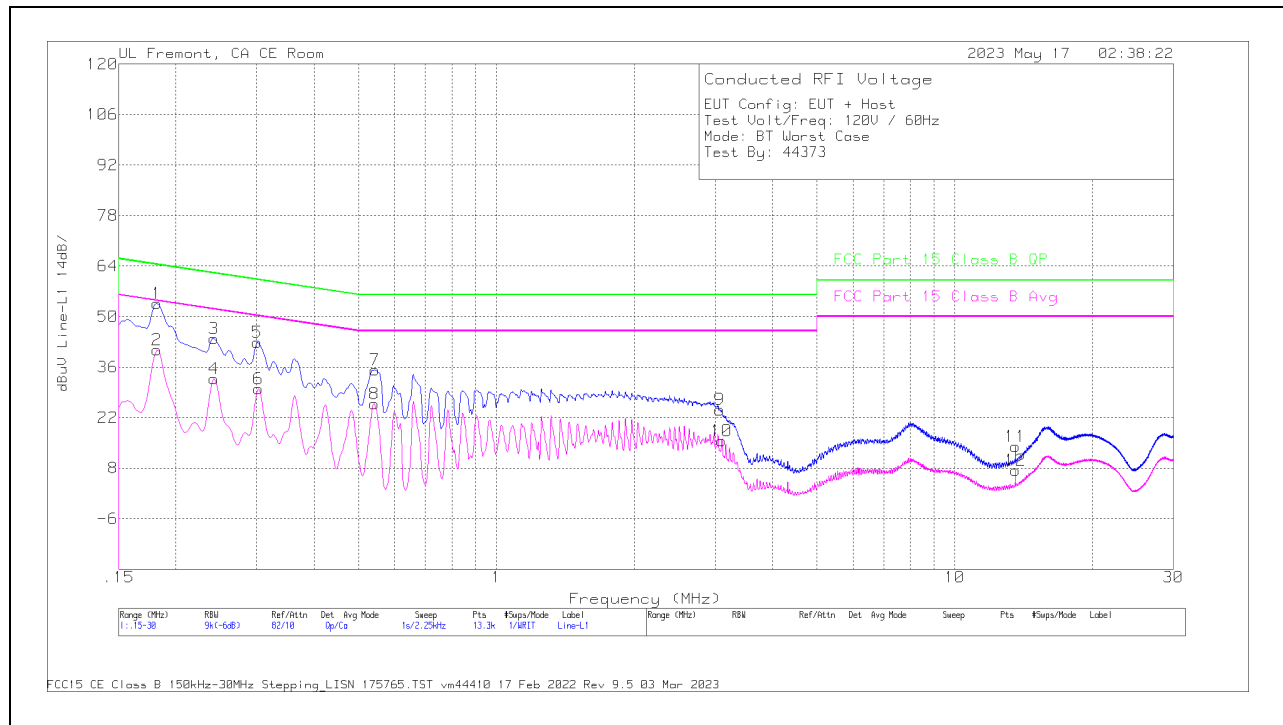
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2_LISN dB	C2&C3 cable path loss	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
14	.1523	27.17	Ca	0	0	9.4	36.57	-	-	55.88	-19.31
16	.204	24.59	Ca	0	0	9.4	33.99	-	-	53.45	-19.46
18	.2535	21.23	Ca	0	0	9.3	30.53	-	-	51.64	-21.11
20	.7125	14.67	Ca	0	.1	9.3	24.07	-	-	46	-21.93
22	4.6624	9.75	Ca	0	.1	9.3	19.15	-	-	46	-26.85
24	13.56	-2.98	Ca	.1	.2	9.3	6.62	-	-	50	-43.38
13	.1523	44	Qp	0	0	9.4	53.4	65.88	-12.48	-	-
15	.204	41.32	Qp	0	0	9.4	50.72	63.45	-12.73	-	-
17	.2558	38.05	Qp	0	0	9.3	47.35	61.57	-14.22	-	-
19	.708	23.33	Qp	0	.1	9.3	32.73	56	-23.27	-	-
21	4.6658	22.89	Qp	0	.1	9.3	32.29	56	-23.71	-	-
23	13.56	2.89	Qp	.1	.2	9.3	12.49	60	-47.51	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

11.2. AC Power Line With Laptop

LINE 1 RESULTS

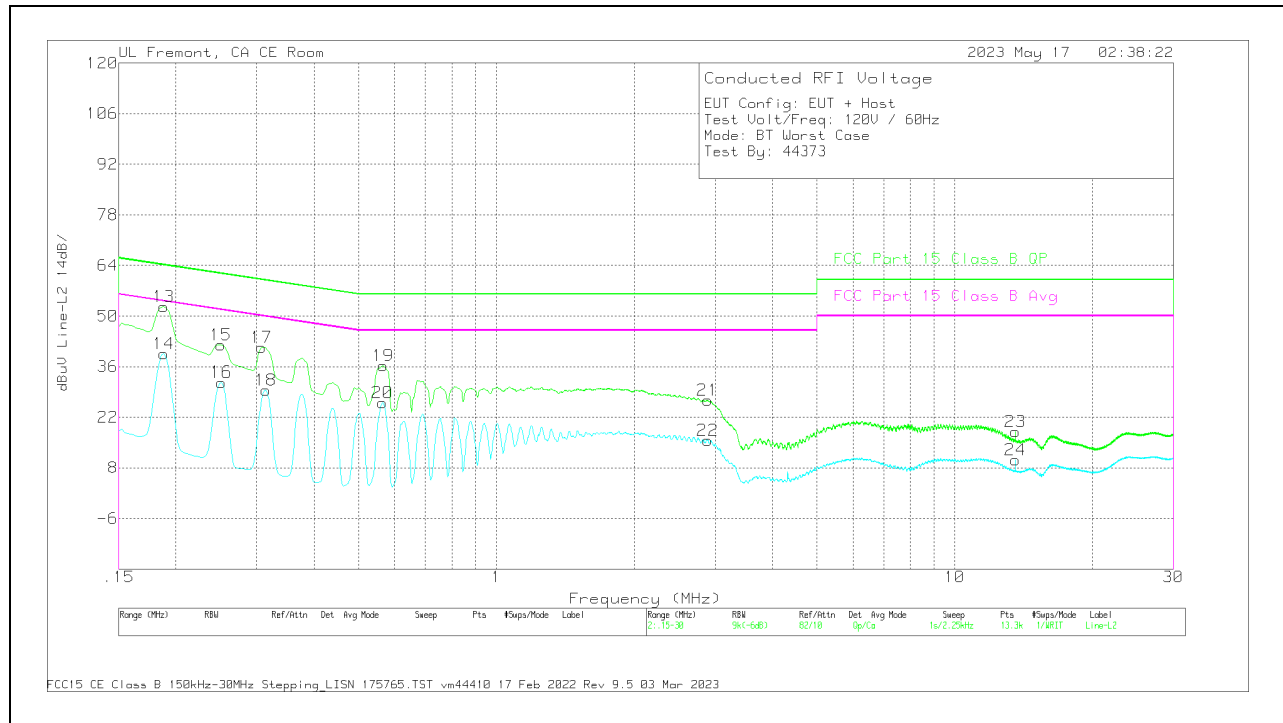


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1 LISN.csv dB	C1&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
2	.1815	31.36	Ca	0	0	9.4	40.76	-	-	54.42	-13.66
4	.2423	23.54	Ca	0	0	9.3	32.84	-	-	52.02	-19.18
6	.303	20.77	Ca	0	0	9.3	30.07	-	-	50.16	-20.09
8	.5415	16.46	Ca	0	.1	9.3	25.86	-	-	46	-20.14
10	3.102	6.19	Ca	0	.1	9.3	15.59	-	-	46	-30.41
12	13.56	-2.14	Ca	.1	.2	9.3	7.46	-	-	50	-42.54
1	.1815	44.23	Qp	0	0	9.4	53.63	64.42	-10.79	-	-
3	.2423	34.68	Qp	0	0	9.3	43.98	62.02	-18.04	-	-
5	.3008	33.55	Qp	0	0	9.3	42.85	60.22	-17.37	-	-
7	.5438	25.87	Qp	0	.1	9.3	35.27	56	-20.73	-	-
9	3.0728	14.79	Qp	0	.1	9.3	24.19	56	-31.81	-	-
11	13.56	4.41	Qp	.1	.2	9.3	14.01	60	-45.99	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2_LISN dB	C2&C3 cable path loss	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
14	.1883	30.19	Ca	0	0	9.4	39.59	-	-	54.11	-14.52
16	.2513	22.36	Ca	0	0	9.3	31.66	-	-	51.72	-20.06
18	.3143	20.21	Ca	0	0	9.3	29.51	-	-	49.86	-20.35
20	.564	16.61	Ca	0	.1	9.3	26.01	-	-	46	-19.99
22	2.895	6.23	Ca	0	.1	9.3	15.63	-	-	46	-30.37
24	13.56	.63	Ca	.1	.2	9.3	10.23	-	-	50	-39.77
13	.1883	43.14	Qp	0	0	9.4	52.54	64.11	-11.57	-	-
15	.2501	32.66	Qp	0	0	9.3	41.96	61.75	-19.79	-	-
17	.3075	31.95	Qp	0	0	9.3	41.25	60.04	-18.79	-	-
19	.5663	26.93	Qp	0	.1	9.3	36.33	56	-19.67	-	-
21	2.895	17.33	Qp	0	.1	9.3	26.73	56	-29.27	-	-
23	13.56	8.45	Qp	.1	.2	9.3	18.05	60	-41.95	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 14523771-EP1V1 for setup photos

END OF TEST REPORT