

ADJACENT CHANNEL POWER RATIO

SPECIFICATION: FCC 47 CFR 90.543

GUIDE: TIA-603-E 2.2.14
TIA-102.CAAA-E 2.2.8

MEASUREMENT PROCEDURE:

1. Refer Annex A for equipment set up.
2. The transmitter is modulated with the standard test pattern for digital modulation.
3. The test is performed in accordance with 47 CFR 90.543

MEASUREMENT UNCERTAINTY: ≤ 12.75 GHz ± 3.0 dB

MEASUREMENT RESULTS:

Analogue

Tx FREQUENCY: 769.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-51.16	-47.88	-40
15.625 kHz	6.25 kHz	-70.2	-69.25	-60
21.875 kHz	6.25 kHz	-74.81	-74.66	-60
37.5 kHz	25 kHz	-71.64	-71.6	-60
62.5 kHz	25 kHz	-75.27	-75.22	-65
87.5 kHz	25 kHz	-77.56	-77.62	-65
150 kHz	100 kHz	-74.57	-74.54	-65
250 kHz	100 kHz	-78.63	-78.49	-65
350 kHz	100 kHz	-81.52	-81.5	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.5		-75
12 MHz to paired receive band	30 kHz (swept)	-82		-75
In the paired receive band	30 kHz (swept)	-107.2		-100

Analogue

Tx FREQUENCY: 774.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-51.11	-47.94	-40
15.625 kHz	6.25 kHz	-69.98	-69.37	-60
21.875 kHz	6.25 kHz	-74.68	-74.53	-60
37.5 kHz	25 kHz	-71.48	-71.43	-60
62.5 kHz	25 kHz	-75.08	-75.1	-65
87.5 kHz	25 kHz	-77.33	-77.37	-65
150 kHz	100 kHz	-74.46	-74.4	-65
250 kHz	100 kHz	-78.44	-78.25	-65
350 kHz	100 kHz	-81.23	-81.23	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.5		-75
12 MHz to paired receive band	30 kHz (swept)	-102		-75
In the paired receive band	30 kHz (swept)	-106.7		-100

Analogue

Tx FREQUENCY: 799.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-51.18	-47.98	-40
15.625 kHz	6.25 kHz	-69.82	-69.38	-60
21.875 kHz	6.25 kHz	-74.28	-74.1	-60
37.5 kHz	25 kHz	-71.05	-70.98	-60
62.5 kHz	25 kHz	-74.55	-74.57	-65
87.5 kHz	25 kHz	-76.87	-76.9	-65
150 kHz	100 kHz	-73.95	-73.88	-65
250 kHz	100 kHz	-77.96	-77.65	-65
350 kHz	100 kHz	-81.02	-80.91	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.4		-75
In the paired receive band	30 kHz (swept)	-106		-100

Analogue

Tx FREQUENCY: 804.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-51	-47.85	-40
15.625 kHz	6.25 kHz	-69.37	-68.83	-60
21.875 kHz	6.25 kHz	-73.2	-73.04	-60
37.5 kHz	25 kHz	-70.13	-70.08	-60
62.5 kHz	25 kHz	-73.92	-73.88	-65
87.5 kHz	25 kHz	-76.41	-76.5	-65
150 kHz	100 kHz	-73.5	-73.4	-65
250 kHz	100 kHz	-77.72	-77.44	-65
350 kHz	100 kHz	-80.67	-80.59	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.7		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

Analogue

Tx FREQUENCY: 769.075 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-65.95	-65.08	-40
21.875 kHz	6.25 kHz	-73.88	-73.4	-60
37.5 kHz	25 kHz	-71.35	-71.28	-60
62.5 kHz	25 kHz	-75.27	-75.25	-65
87.5 kHz	25 kHz	-77.59	-77.61	-65
150 kHz	100 kHz	-74.75	-74.67	-65
250 kHz	100 kHz	-79.58	-79.37	-65
350 kHz	100 kHz	-82.48	-82.53	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.6		-75
12 MHz to paired receive band	30 kHz (swept)	-99		-75
In the paired receive band	30 kHz (swept)	-104		-100

Analogue

Tx FREQUENCY: 774.9 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-65.28	-64.96	-40
21.875 kHz	6.25 kHz	-73.52	-73.52	-60
37.5 kHz	25 kHz	-71.23	-71.21	-60
62.5 kHz	25 kHz	-75.01	-75	-65
87.5 kHz	25 kHz	-77.26	-77.29	-65
150 kHz	100 kHz	-74.59	-74.5	-65
250 kHz	100 kHz	-79.38	-79.19	-65
350 kHz	100 kHz	-82.26	-82.17	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.4		-75
12 MHz to paired receive band	30 kHz (swept)	-102		-75
In the paired receive band	30 kHz (swept)	-104		-100

Analogue

Tx FREQUENCY: 799.075 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-65.41	-65.13	-40
21.875 kHz	6.25 kHz	-73.28	-73.21	-60
37.5 kHz	25 kHz	-70.7	-70.68	-60
62.5 kHz	25 kHz	-74.51	-74.53	-65
87.5 kHz	25 kHz	-76.83	-76.83	-65
150 kHz	100 kHz	-74.09	-73.99	-65
250 kHz	100 kHz	-78.73	-78.52	-65
350 kHz	100 kHz	-81.76	-81.71	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.8		-75
12 MHz to paired receive band	30 kHz (swept)	-88.3		-75
In the paired receive band	30 kHz (swept)	-106		-100

Analogue

Tx FREQUENCY: 804.9 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-64.43	-64.24	-40
21.875 kHz	6.25 kHz	-72.27	-72.22	-60
37.5 kHz	25 kHz	-69.86	-69.83	-60
62.5 kHz	25 kHz	-73.9	-73.86	-65
87.5 kHz	25 kHz	-76.25	-76.32	-65
150 kHz	100 kHz	-73.64	-73.61	-65
250 kHz	100 kHz	-78.44	-78.2	-65
350 kHz	100 kHz	-81.56	-81.46	-65
>400 kHz to 12 MHz	30 kHz (swept)	-77.6		-75
12 MHz to paired receive band	30 kHz (swept)	-88.6		-75
In the paired receive band	30 kHz (swept)	-106.3		-100

Analogue

Tx FREQUENCY: 769.075 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-62.19	-61	-40
21.875 kHz	6.25 kHz	-72.49	-71.91	-60
37.5 kHz	25 kHz	-71.07	-71.01	-60
62.5 kHz	25 kHz	-75.2	-75.19	-65
87.5 kHz	25 kHz	-77.44	-77.47	-65
150 kHz	100 kHz	-74.43	-74.39	-65
250 kHz	100 kHz	-78.58	-78.43	-65
350 kHz	100 kHz	-81.46	-81.44	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.5		-75
12 MHz to paired receive band	30 kHz (swept)	-99.5		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

Analogue

Tx FREQUENCY: 774.9 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-61.76	-61.1	-40
21.875 kHz	6.25 kHz	-72.14	-71.78	-60
37.5 kHz	25 kHz	-70.82	-70.78	-60
62.5 kHz	25 kHz	-74.96	-74.96	-65
87.5 kHz	25 kHz	-77.07	-77.11	-65
150 kHz	100 kHz	-74.33	-74.25	-65
250 kHz	100 kHz	-78.39	-78.22	-65
350 kHz	100 kHz	-81.18	-81.09	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.4		-75
12 MHz to paired receive band	30 kHz (swept)	-92.4		-75
In the paired receive band	30 kHz (swept)	-106.3		-100

Analogue

Tx FREQUENCY: 799.075 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-62.1	-61.64	-40
21.875 kHz	6.25 kHz	-72.07	-71.72	-60
37.5 kHz	25 kHz	-70.43	-70.39	-60
62.5 kHz	25 kHz	-74.44	-74.42	-65
87.5 kHz	25 kHz	-76.64	-76.66	-65
150 kHz	100 kHz	-73.77	-73.72	-65
250 kHz	100 kHz	-77.95	-77.67	-65
350 kHz	100 kHz	-80.89	-80.88	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.9		-75
12 MHz to paired receive band	30 kHz (swept)	-93		-75
In the paired receive band	30 kHz (swept)	-106.3		-100

Analogue

Tx FREQUENCY: 804.9 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-62.17	-61.25	-40
21.875 kHz	6.25 kHz	-71.26	-70.8	-60
37.5 kHz	25 kHz	-69.52	-69.39	-60
62.5 kHz	25 kHz	-73.76	-73.73	-65
87.5 kHz	25 kHz	-76.05	-76.12	-65
150 kHz	100 kHz	-73.47	-73.37	-65
250 kHz	100 kHz	-77.69	-77.41	-65
350 kHz	100 kHz	-80.72	-80.65	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78		-75
12 MHz to paired receive band	30 kHz (swept)	-88.5		-75
In the paired receive band	30 kHz (swept)	-106.2		-100

1200 FFSK

Tx FREQUENCY: 769.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-59.93	-57.15	-40
15.625 kHz	6.25 kHz	-73.09	-73.01	-60
21.875 kHz	6.25 kHz	-75.04	-74.94	-60
37.5 kHz	25 kHz	-71.69	-71.64	-60
62.5 kHz	25 kHz	-75.27	-75.28	-65
87.5 kHz	25 kHz	-77.66	-77.72	-65
150 kHz	100 kHz	-74.58	-74.53	-65
250 kHz	100 kHz	-78.64	-78.48	-65
350 kHz	100 kHz	-81.65	-81.58	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.5		-75
12 MHz to paired receive band	30 kHz (swept)	-99.5		-75
In the paired receive band	30 kHz (swept)	-106.2		-100

1200 FFSK

Tx FREQUENCY: 774.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-59.77	-57.29	-40
15.625 kHz	6.25 kHz	-73.04	-72.89	-60
21.875 kHz	6.25 kHz	-74.86	-74.79	-60
37.5 kHz	25 kHz	-71.56	-71.49	-60
62.5 kHz	25 kHz	-75.11	-75.12	-65
87.5 kHz	25 kHz	-77.33	-77.35	-65
150 kHz	100 kHz	-74.43	-74.39	-65
250 kHz	100 kHz	-78.39	-78.26	-65
350 kHz	100 kHz	-81.18	-81.19	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79		-75
12 MHz to paired receive band	30 kHz (swept)	-104		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

1200 FFSK

Tx FREQUENCY: 799.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-59.97	-56.86	-40
15.625 kHz	6.25 kHz	-72.8	-72.61	-60
21.875 kHz	6.25 kHz	-74.47	-74.36	-60
37.5 kHz	25 kHz	-71.08	-70.98	-60
62.5 kHz	25 kHz	-74.48	-74.49	-65
87.5 kHz	25 kHz	-76.85	-76.87	-65
150 kHz	100 kHz	-73.97	-73.91	-65
250 kHz	100 kHz	-77.96	-77.73	-65
350 kHz	100 kHz	-81	-81	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.4		-75
In the paired receive band	30 kHz (swept)	-107.2		-100

1200 FFSK

Tx FREQUENCY: 804.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-59.69	-56.98	-40
15.625 kHz	6.25 kHz	-71.77	-71.64	-60
21.875 kHz	6.25 kHz	-73.43	-73.29	-60
37.5 kHz	25 kHz	-70.12	-70.04	-60
62.5 kHz	25 kHz	-73.85	-73.82	-65
87.5 kHz	25 kHz	-76.22	-76.4	-65
150 kHz	100 kHz	-73.58	-73.43	-65
250 kHz	100 kHz	-77.79	-77.5	-65
350 kHz	100 kHz	-80.8	-80.7	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.2		-75
12 MHz to paired receive band	30 kHz (swept)	-88.6		-75
In the paired receive band	30 kHz (swept)	-106		-100

1200 FFSK

Tx FREQUENCY: 769.075 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-72.66	-72.57	-40
21.875 kHz	6.25 kHz	-74.83	-74.78	-60
37.5 kHz	25 kHz	-71.49	-71.46	-60
62.5 kHz	25 kHz	-75.3	-75.29	-65
87.5 kHz	25 kHz	-77.6	-77.62	-65
150 kHz	100 kHz	-74.73	-74.65	-65
250 kHz	100 kHz	-79.57	-79.43	-65
350 kHz	100 kHz	-82.5	-82.48	-65
>400 kHz to 12 MHz	30 kHz (swept)	-80.2		-75
12 MHz to paired receive band	30 kHz (swept)	-83.4		-75
In the paired receive band	30 kHz (swept)	-104		-100

1200 FFSK

Tx FREQUENCY: 774.9 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-72.51	-72.4	-40
21.875 kHz	6.25 kHz	-74.73	-74.62	-60
37.5 kHz	25 kHz	-71.35	-71.28	-60
62.5 kHz	25 kHz	-75.11	-75.08	-65
87.5 kHz	25 kHz	-77.29	-77.31	-65
150 kHz	100 kHz	-74.67	-74.62	-65
250 kHz	100 kHz	-79.43	-79.19	-65
350 kHz	100 kHz	-82.35	-82.28	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.5		-75
12 MHz to paired receive band	30 kHz (swept)	-103		-75
In the paired receive band	30 kHz (swept)	-104.2		-100

1200 FFSK

Tx FREQUENCY: 799.075 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-72.26	-72.12	-40
21.875 kHz	6.25 kHz	-74.43	-74.29	-60
37.5 kHz	25 kHz	-70.88	-70.8	-60
62.5 kHz	25 kHz	-74.5	-74.47	-65
87.5 kHz	25 kHz	-76.82	-76.82	-65
150 kHz	100 kHz	-74.07	-74.03	-65
250 kHz	100 kHz	-78.7	-78.34	-65
350 kHz	100 kHz	-81.74	-81.65	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.2		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

1200 FFSK

Tx FREQUENCY:

804.9 MHz

30 W

20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-71.01	-70.9	-40
21.875 kHz	6.25 kHz	-72.95	-72.85	-60
37.5 kHz	25 kHz	-69.77	-69.68	-60
62.5 kHz	25 kHz	-73.79	-73.77	-65
87.5 kHz	25 kHz	-76.19	-76.23	-65
150 kHz	100 kHz	-73.63	-73.59	-65
250 kHz	100 kHz	-78.42	-78.08	-65
350 kHz	100 kHz	-81.5	-81.38	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.7		-75
In the paired receive band	30 kHz (swept)	-105.8		-100

1200 FFSK

Tx FREQUENCY: 769.075 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-72.26	-72.03	-40
21.875 kHz	6.25 kHz	-74.63	-74.56	-60
37.5 kHz	25 kHz	-71.28	-71.22	-60
62.5 kHz	25 kHz	-75.2	-75.22	-65
87.5 kHz	25 kHz	-77.46	-77.49	-65
150 kHz	100 kHz	-74.51	-74.48	-65
250 kHz	100 kHz	-78.61	-78.47	-65
350 kHz	100 kHz	-81.61	-81.48	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.7		-75
12 MHz to paired receive band	30 kHz (swept)	-99		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

1200 FFSK

Tx FREQUENCY: 774.9 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-72.04	-71.9	-40
21.875 kHz	6.25 kHz	-74.52	-74.43	-60
37.5 kHz	25 kHz	-71.11	-71.05	-60
62.5 kHz	25 kHz	-75.02	-75.01	-65
87.5 kHz	25 kHz	-77.18	-77.19	-65
150 kHz	100 kHz	-74.41	-74.33	-65
250 kHz	100 kHz	-78.47	-78.26	-65
350 kHz	100 kHz	-81.28	-81.16	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.6		-75
12 MHz to paired receive band	30 kHz (swept)	-103		-75
In the paired receive band	30 kHz (swept)	-106		-100

1200 FFSK

Tx FREQUENCY: 799.075 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-71.96	-71.74	-40
21.875 kHz	6.25 kHz	-74.15	-74.11	-60
37.5 kHz	25 kHz	-70.71	-70.63	-60
62.5 kHz	25 kHz	-74.52	-74.51	-65
87.5 kHz	25 kHz	-76.65	-76.66	-65
150 kHz	100 kHz	-73.85	-73.81	-65
250 kHz	100 kHz	-77.94	-77.65	-65
350 kHz	100 kHz	-80.98	-80.88	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.8		-75
12 MHz to paired receive band	30 kHz (swept)	-88.6		-75
In the paired receive band	30 kHz (swept)	-106		-100

1200 FFSK

Tx FREQUENCY:

804.9 MHz

30 W

25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-71.11	-70.93	-40
21.875 kHz	6.25 kHz	-73.25	-73.06	-60
37.5 kHz	25 kHz	-69.89	-69.79	-60
62.5 kHz	25 kHz	-73.92	-73.9	-65
87.5 kHz	25 kHz	-76.15	-76.15	-65
150 kHz	100 kHz	-73.51	-73.43	-65
250 kHz	100 kHz	-77.72	-77.43	-65
350 kHz	100 kHz	-80.72	-80.69	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.2		-75
12 MHz to paired receive band	30 kHz (swept)	-88.5		-75
In the paired receive band	30 kHz (swept)	-106		-100

2400 FFSK

Tx FREQUENCY: 769.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-48.6	-47.63	-40
15.625 kHz	6.25 kHz	-73.03	-72.89	-60
21.875 kHz	6.25 kHz	-74.98	-75	-60
37.5 kHz	25 kHz	-71.61	-71.56	-60
62.5 kHz	25 kHz	-75.3	-75.29	-65
87.5 kHz	25 kHz	-77.6	-77.66	-65
150 kHz	100 kHz	-74.58	-74.53	-65
250 kHz	100 kHz	-78.65	-78.48	-65
350 kHz	100 kHz	-81.63	-81.5	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.6		-75
12 MHz to paired receive band	30 kHz (swept)	-99		-75
In the paired receive band	30 kHz (swept)	-106		-100

2400 FFSK

Tx FREQUENCY: 774.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-48.61	-47.48	-40
15.625 kHz	6.25 kHz	-72.96	-72.82	-60
21.875 kHz	6.25 kHz	-74.85	-74.78	-60
37.5 kHz	25 kHz	-71.49	-71.43	-60
62.5 kHz	25 kHz	-75.08	-75.08	-65
87.5 kHz	25 kHz	-77.3	-77.34	-65
150 kHz	100 kHz	-74.46	-74.41	-65
250 kHz	100 kHz	-78.49	-78.34	-65
350 kHz	100 kHz	-81.25	-81.24	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.3		-75
12 MHz to paired receive band	30 kHz (swept)	-103		-75
In the paired receive band	30 kHz (swept)	-106.7		-100

2400 FFSK

Tx FREQUENCY: 799.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-48.62	-47.54	-40
15.625 kHz	6.25 kHz	-72.74	-72.57	-60
21.875 kHz	6.25 kHz	-74.48	-74.41	-60
37.5 kHz	25 kHz	-70.99	-70.92	-60
62.5 kHz	25 kHz	-74.49	-74.46	-65
87.5 kHz	25 kHz	-76.87	-76.89	-65
150 kHz	100 kHz	-73.96	-73.9	-65
250 kHz	100 kHz	-77.95	-77.71	-65
350 kHz	100 kHz	-80.98	-81.02	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.8		-75
12 MHz to paired receive band	30 kHz (swept)	-88.5		-75
In the paired receive band	30 kHz (swept)	-106.4		-100

2400 FFSK

Tx FREQUENCY: 804.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-48.3	-47.33	-40
15.625 kHz	6.25 kHz	-71.7	-71.6	-60
21.875 kHz	6.25 kHz	-73.43	-73.31	-60
37.5 kHz	25 kHz	-70.15	-70.06	-60
62.5 kHz	25 kHz	-73.96	-73.96	-65
87.5 kHz	25 kHz	-76.42	-76.52	-65
150 kHz	100 kHz	-73.6	-73.47	-65
250 kHz	100 kHz	-77.78	-77.51	-65
350 kHz	100 kHz	-80.82	-80.7	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.2		-75
12 MHz to paired receive band	30 kHz (swept)	-88.5		-75
In the paired receive band	30 kHz (swept)	-106		-100

2400 FFSK

Tx FREQUENCY: 769.075 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-72.51	-72.33	-40
21.875 kHz	6.25 kHz	-74.89	-74.78	-60
37.5 kHz	25 kHz	-71.37	-71.34	-60
62.5 kHz	25 kHz	-75.25	-75.25	-65
87.5 kHz	25 kHz	-77.57	-77.58	-65
150 kHz	100 kHz	-74.58	-74.57	-65
250 kHz	100 kHz	-79.53	-79.23	-65
350 kHz	100 kHz	-82.43	-82.43	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.6		-75
12 MHz to paired receive band	30 kHz (swept)	-100		-75
In the paired receive band	30 kHz (swept)	-104.2		-100

2400 FFSK

Tx FREQUENCY: 774.9 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-72.27	-71.93	-40
21.875 kHz	6.25 kHz	-74.61	-74.57	-60
37.5 kHz	25 kHz	-71.12	-71.05	-60
62.5 kHz	25 kHz	-74.99	-74.98	-65
87.5 kHz	25 kHz	-77.16	-77.18	-65
150 kHz	100 kHz	-74.58	-74.53	-65
250 kHz	100 kHz	-79.37	-79.1	-65
350 kHz	100 kHz	-82.24	-82.14	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.7		-75
12 MHz to paired receive band	30 kHz (swept)	-101		-75
In the paired receive band	30 kHz (swept)	-104.6		-100

2400 FFSK

Tx FREQUENCY: 799.075 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-71.96	-71.61	-40
21.875 kHz	6.25 kHz	-74.26	-74.06	-60
37.5 kHz	25 kHz	-70.61	-70.51	-60
62.5 kHz	25 kHz	-74.41	-74.37	-65
87.5 kHz	25 kHz	-76.7	-76.68	-65
150 kHz	100 kHz	-74.03	-73.95	-65
250 kHz	100 kHz	-78.62	-78.33	-65
350 kHz	100 kHz	-81.73	-81.75	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.9		-75
12 MHz to paired receive band	30 kHz (swept)	-88.3		-75
In the paired receive band	30 kHz (swept)	-106		-100

2400 FFSK

Tx FREQUENCY: 804.9 MHz 30 W 20 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-70.72	-70.51	-40
21.875 kHz	6.25 kHz	-72.72	-72.56	-60
37.5 kHz	25 kHz	-69.56	-69.46	-60
62.5 kHz	25 kHz	-73.71	-73.7	-65
87.5 kHz	25 kHz	-76.07	-76.1	-65
150 kHz	100 kHz	-73.58	-73.39	-65
250 kHz	100 kHz	-78.29	-78.04	-65
350 kHz	100 kHz	-81.36	-81.36	-65
>400 kHz to 12 MHz	30 kHz (swept)	-77.6		-75
12 MHz to paired receive band	30 kHz (swept)	-88.6		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

2400 FFSK

Tx FREQUENCY: 769.075 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-71.14	-70.18	-40
21.875 kHz	6.25 kHz	-74.67	-74.51	-60
37.5 kHz	25 kHz	-71.01	-70.97	-60
62.5 kHz	25 kHz	-75.16	-75.16	-65
87.5 kHz	25 kHz	-77.37	-77.33	-65
150 kHz	100 kHz	-74.44	-74.4	-65
250 kHz	100 kHz	-78.59	-78.42	-65
350 kHz	100 kHz	-81.52	-81.48	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.6		-75
12 MHz to paired receive band	30 kHz (swept)	-99		-75
In the paired receive band	30 kHz (swept)	-106		-100

2400 FFSK

Tx FREQUENCY: 774.9 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-71.29	-69.82	-40
21.875 kHz	6.25 kHz	-74.45	-74.27	-60
37.5 kHz	25 kHz	-70.86	-70.81	-60
62.5 kHz	25 kHz	-74.96	-74.95	-65
87.5 kHz	25 kHz	-77.07	-77.08	-65
150 kHz	100 kHz	-74.36	-74.31	-65
250 kHz	100 kHz	-78.38	-78.23	-65
350 kHz	100 kHz	-81.12	-81.09	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.5		-75
12 MHz to paired receive band	30 kHz (swept)	-102		-75
In the paired receive band	30 kHz (swept)	-106		-100

2400 FFSK

Tx FREQUENCY: 799.075 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
15.625 kHz	6.25 kHz	-70.98	-69.68	-40
21.875 kHz	6.25 kHz	-74.11	-73.91	-60
37.5 kHz	25 kHz	-70.45	-70.36	-60
62.5 kHz	25 kHz	-74.41	-74.42	-65
87.5 kHz	25 kHz	-76.6	-76.62	-65
150 kHz	100 kHz	-73.82	-73.75	-65
250 kHz	100 kHz	-77.93	-77.65	-65
350 kHz	100 kHz	-80.93	-80.89	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.8		-75
12 MHz to paired receive band	30 kHz (swept)	-88		-75
In the paired receive band	30 kHz (swept)	-106.2		-100

2400 FFSK

Tx FREQUENCY: 804.9 MHz 30 W 25 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
15.625 kHz	6.25 kHz	-70.18	-68.97	-40
21.875 kHz	6.25 kHz	-72.8	-72.66	-60
37.5 kHz	25 kHz	-69.49	-69.37	-60
62.5 kHz	25 kHz	-73.83	-73.8	-65
87.5 kHz	25 kHz	-75.98	-76.05	-65
150 kHz	100 kHz	-73.47	-73.36	-65
250 kHz	100 kHz	-77.7	-77.41	-65
350 kHz	100 kHz	-80.68	-80.7	-65
>400 kHz to 12 MHz	30 kHz (swept)	-77.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.6		-75
In the paired receive band	30 kHz (swept)	-106		-100

DMR

Tx FREQUENCY: 769.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-44.55	-40.85	-40
15.625 kHz	6.25 kHz	-71.86	-71.65	-60
21.875 kHz	6.25 kHz	-74.76	-74.61	-60
37.5 kHz	25 kHz	-71.53	-71.49	-60
62.5 kHz	25 kHz	-75.27	-75.28	-65
87.5 kHz	25 kHz	-77.62	-77.67	-65
150 kHz	100 kHz	-74.58	-74.54	-65
250 kHz	100 kHz	-78.62	-78.47	-65
350 kHz	100 kHz	-81.62	-81.5	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.4		-75
12 MHz to paired receive band	30 kHz (swept)	-100		-75
In the paired receive band	30 kHz (swept)	-106.4		-100

DMR

Tx FREQUENCY: 774.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-44.73	-40.39	-40
15.625 kHz	6.25 kHz	-71.75	-71.51	-60
21.875 kHz	6.25 kHz	-74.64	-74.51	-60
37.5 kHz	25 kHz	-71.47	-71.39	-60
62.5 kHz	25 kHz	-75.09	-75.1	-65
87.5 kHz	25 kHz	-77.33	-77.35	-65
150 kHz	100 kHz	-74.48	-74.42	-65
250 kHz	100 kHz	-78.46	-78.3	-65
350 kHz	100 kHz	-81.29	-81.26	-65
>400 kHz to 12 MHz	30 kHz (swept)	-88.2		-75
12 MHz to paired receive band	30 kHz (swept)	-102.7		-75
In the paired receive band	30 kHz (swept)	-105.5		-100

DMR

Tx FREQUENCY: 799.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-44.77	-40.38	-40
15.625 kHz	6.25 kHz	-71.64	-71.33	-60
21.875 kHz	6.25 kHz	-74.25	-74.11	-60
37.5 kHz	25 kHz	-71	-70.88	-60
62.5 kHz	25 kHz	-74.54	-74.53	-65
87.5 kHz	25 kHz	-76.83	-76.86	-65
150 kHz	100 kHz	-73.96	-73.89	-65
250 kHz	100 kHz	-78	-77.7	-65
350 kHz	100 kHz	-81.04	-80.89	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.6		-75
12 MHz to paired receive band	30 kHz (swept)	-88.5		-75
In the paired receive band	30 kHz (swept)	-105.8		-100

TELTEST Laboratories
Tait International Ltd
Report Number 4402

DMR

Tx FREQUENCY: 804.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-44.53	-40.28	-40
15.625 kHz	6.25 kHz	-70.84	-70.58	-60
21.875 kHz	6.25 kHz	-73.28	-73.07	-60
37.5 kHz	25 kHz	-70.08	-69.99	-60
62.5 kHz	25 kHz	-73.89	-73.86	-65
87.5 kHz	25 kHz	-76.31	-76.35	-65
150 kHz	100 kHz	-73.57	-73.49	-65
250 kHz	100 kHz	-77.76	-77.51	-65
350 kHz	100 kHz	-80.77	-80.73	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.4		-75
12 MHz to paired receive band	30 kHz (swept)	-88.7		-75
In the paired receive band	30 kHz (swept)	-106.2		-100

P25 PH I

Tx FREQUENCY: 769.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-40.12	-40.1	-40
15.625 kHz	6.25 kHz	-72.98	-72.97	-60
21.875 kHz	6.25 kHz	-75.01	-74.99	-60
37.5 kHz	25 kHz	-71.53	-71.57	-60
62.5 kHz	25 kHz	-75.19	-75.24	-65
87.5 kHz	25 kHz	-77.52	-77.57	-65
150 kHz	100 kHz	-74.56	-74.52	-65
250 kHz	100 kHz	-78.59	-78.42	-65
350 kHz	100 kHz	-81.47	-81.42	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.5		-75
12 MHz to paired receive band	30 kHz (swept)	-98		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

P25 PH I

Tx FREQUENCY: 774.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-40.16	-40.12	-40
15.625 kHz	6.25 kHz	-72.79	-72.8	-60
21.875 kHz	6.25 kHz	-74.75	-74.81	-60
37.5 kHz	25 kHz	-71.37	-71.39	-60
62.5 kHz	25 kHz	-75.02	-75.09	-65
87.5 kHz	25 kHz	-77.22	-77.3	-65
150 kHz	100 kHz	-74.48	-74.43	-65
250 kHz	100 kHz	-78.44	-78.28	-65
350 kHz	100 kHz	-81.29	-81.27	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.7		-75
12 MHz to paired receive band	30 kHz (swept)	-102		-75
In the paired receive band	30 kHz (swept)	-106.2		-100

P25 PH I

Tx FREQUENCY: 799.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-40.28	-40.19	-40
15.625 kHz	6.25 kHz	-72.57	-72.62	-60
21.875 kHz	6.25 kHz	-74.48	-74.38	-60
37.5 kHz	25 kHz	-70.86	-70.88	-60
62.5 kHz	25 kHz	-74.41	-74.45	-65
87.5 kHz	25 kHz	-76.74	-76.82	-65
150 kHz	100 kHz	-73.9	-73.83	-65
250 kHz	100 kHz	-77.95	-77.65	-65
350 kHz	100 kHz	-80.96	-80.87	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.5		-75
12 MHz to paired receive band	30 kHz (swept)	-88.6		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

P25 PH I

Tx FREQUENCY: 804.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-40.02	-40.15	-40
15.625 kHz	6.25 kHz	-71.21	-71.24	-60
21.875 kHz	6.25 kHz	-72.93	-72.95	-60
37.5 kHz	25 kHz	-69.74	-69.75	-60
62.5 kHz	25 kHz	-73.74	-73.74	-65
87.5 kHz	25 kHz	-76.15	-76.3	-65
150 kHz	100 kHz	-73.51	-73.42	-65
250 kHz	100 kHz	-77.73	-77.45	-65
350 kHz	100 kHz	-80.72	-80.74	-65
>400 kHz to 12 MHz	30 kHz (swept)	-77.2		-75
12 MHz to paired receive band	30 kHz (swept)	-88.7		-75
In the paired receive band	30 kHz (swept)	-105		-100

P25 PH II

Tx FREQUENCY: 769.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-40.96	-41.47	-40
15.625 kHz	6.25 kHz	-73.01	-73.02	-60
21.875 kHz	6.25 kHz	-75.01	-74.99	-60
37.5 kHz	25 kHz	-71.56	-71.6	-60
62.5 kHz	25 kHz	-75.18	-75.25	-65
87.5 kHz	25 kHz	-77.52	-77.61	-65
150 kHz	100 kHz	-74.55	-74.49	-65
250 kHz	100 kHz	-78.6	-78.43	-65
350 kHz	100 kHz	-81.53	-81.46	-65
>400 kHz to 12 MHz	30 kHz (swept)	-79.5		-75
12 MHz to paired receive band	30 kHz (swept)	-100		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

P25 PH II

Tx FREQUENCY: 774.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-40.73	-41.78	-40
15.625 kHz	6.25 kHz	-72.78	-72.78	-60
21.875 kHz	6.25 kHz	-74.73	-74.79	-60
37.5 kHz	25 kHz	-71.37	-71.42	-60
62.5 kHz	25 kHz	-75.01	-75.08	-65
87.5 kHz	25 kHz	-77.25	-77.35	-65
150 kHz	100 kHz	-74.47	-74.39	-65
250 kHz	100 kHz	-78.43	-78.27	-65
350 kHz	100 kHz	-81.24	-81.19	-65
>400 kHz to 12 MHz	30 kHz (swept)	-78.5		-75
12 MHz to paired receive band	30 kHz (swept)	-102		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

P25 PH II

Tx FREQUENCY: 799.075 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP(dBc)
9.375 kHz	6.25 kHz	-40.94	-41.82	-40
15.625 kHz	6.25 kHz	-72.54	-72.5	-60
21.875 kHz	6.25 kHz	-74.39	-74.48	-60
37.5 kHz	25 kHz	-70.89	-70.9	-60
62.5 kHz	25 kHz	-74.48	-74.53	-65
87.5 kHz	25 kHz	-76.79	-76.87	-65
150 kHz	100 kHz	-73.92	-73.86	-65
250 kHz	100 kHz	-77.92	-77.64	-65
350 kHz	100 kHz	-80.92	-80.89	-65
>400 kHz to 12 MHz	30 kHz (swept)	-76.8		-75
12 MHz to paired receive band	30 kHz (swept)	-88.4		-75
In the paired receive band	30 kHz (swept)	-106.3		-100

P25 PH II

Tx FREQUENCY: 804.9 MHz 30 W 12.5 kHz Channel Spacing

Frequency Offset	Measurement Bandwidth	ACP Measured Lower (dBc)	ACP Measured Upper (dBc)	Maximum ACP (dBc)
9.375 kHz	6.25 kHz	-40.84	-41.71	-40
15.625 kHz	6.25 kHz	-71.61	-71.67	-60
21.875 kHz	6.25 kHz	-73.41	-73.36	-60
37.5 kHz	25 kHz	-70.03	-70.02	-60
62.5 kHz	25 kHz	-73.79	-73.87	-65
87.5 kHz	25 kHz	-76.16	-76.27	-65
150 kHz	100 kHz	-73.49	-73.42	-65
250 kHz	100 kHz	-77.71	-77.44	-65
350 kHz	100 kHz	-80.75	-80.65	-65
>400 kHz to 12 MHz	30 kHz (swept)	-77.9		-75
12 MHz to paired receive band	30 kHz (swept)	-88.5		-75
In the paired receive band	30 kHz (swept)	-106.5		-100

TRANSMITTER SPURIOUS EMISSIONS (CONDUCTED)

SPECIFICATIONS: FCC 47 CFR 2.1051

RSS-119 5.8

GUIDE: TIA-603-E 2.2.13 (analogue)
TIA-102-CAAA-C 2.2.7 (digital)

MEASUREMENT PROCEDURE:

1. Refer Annex A for equipment set up.
2. The frequency range examined was from the lowest frequency generated within the EUT, to a frequency higher than the 10th Harmonic:
3. The EUT was set to transmit high or low power. A scan is performed with a resolution bandwidth of 100 kHz and a video bandwidth of 300 kHz for frequencies up to 1 GHz, and a resolution bandwidth of 1 MHz and a video bandwidth of 3 MHz for frequencies above 1 GHz.
4. For frequencies close to the carrier the spectrum was measured using a resolution bandwidth of 1kHz, the results were then integrated to give measurements for 100kHz bandwidth.
5. A low-pass filter was used for frequencies from less than two times the carrier to frequencies as stated on the following graphs.
6. For each frequency range the spectrum analyser was loaded with the appropriate calibration figures to compensate for the cables, attenuator, and filter losses, allowing the emission levels to be read directly with no further calculation.
7. The results of the various sweeps were combined programmatically to give charts for frequencies near the carrier, up to 1GHz and above 1GHz.

The calibrations are loaded as an overall reference level offset plus a set of correction factors for the required frequency band.

Spurious emissions which were attenuated by more than 20 dB below the limit were not recorded.

Example of attenuation correction: (dB)

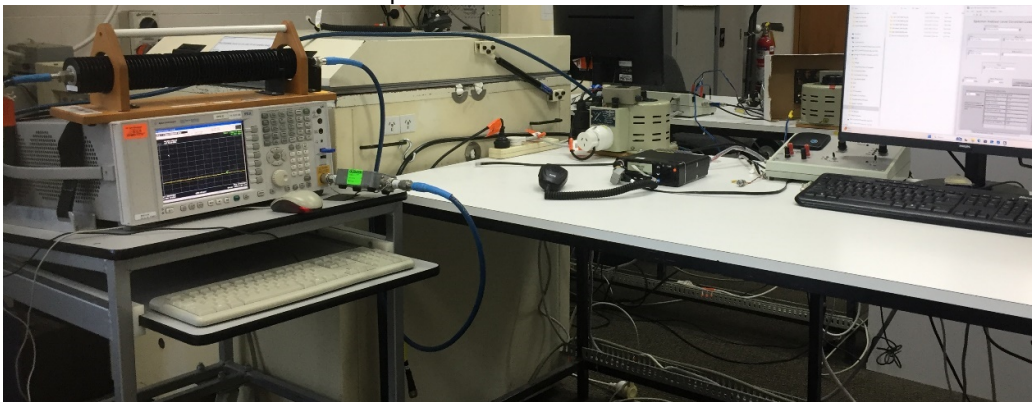
E5023 30dB 350W CK9178	32.09 dB	
E5028 1m5 Blue	0.28 dB	
E5015 3m Blue	0.67 dB	
E3382 135_175MHz HPBRF	5.71 dB	
Total Attenuation @ 521.880M Hz	38.76 dB	Sum of component attenuation (a)
Amplitude offset	38.78 dB	(b)
Correction @ 521.88 MHz	-.02 dB	(a-b)

MEASUREMENT UNCERTAINTY: ≤ 12.75 GHz ± 3.0 dB

MEASUREMENT RESULTS:

See the tables and plots on the following pages.

Photo: Conducted Emissions Test Setup



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

138.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
50.082	-37.4	-84.4
53.932	-39.3	-86.3
87.951	-39.6	-86.6
156.014	-37.7	-84.7
188.09	-38.8	-85.8
191.959	-37.2	-84.2
414.064	-26.6	-73.6

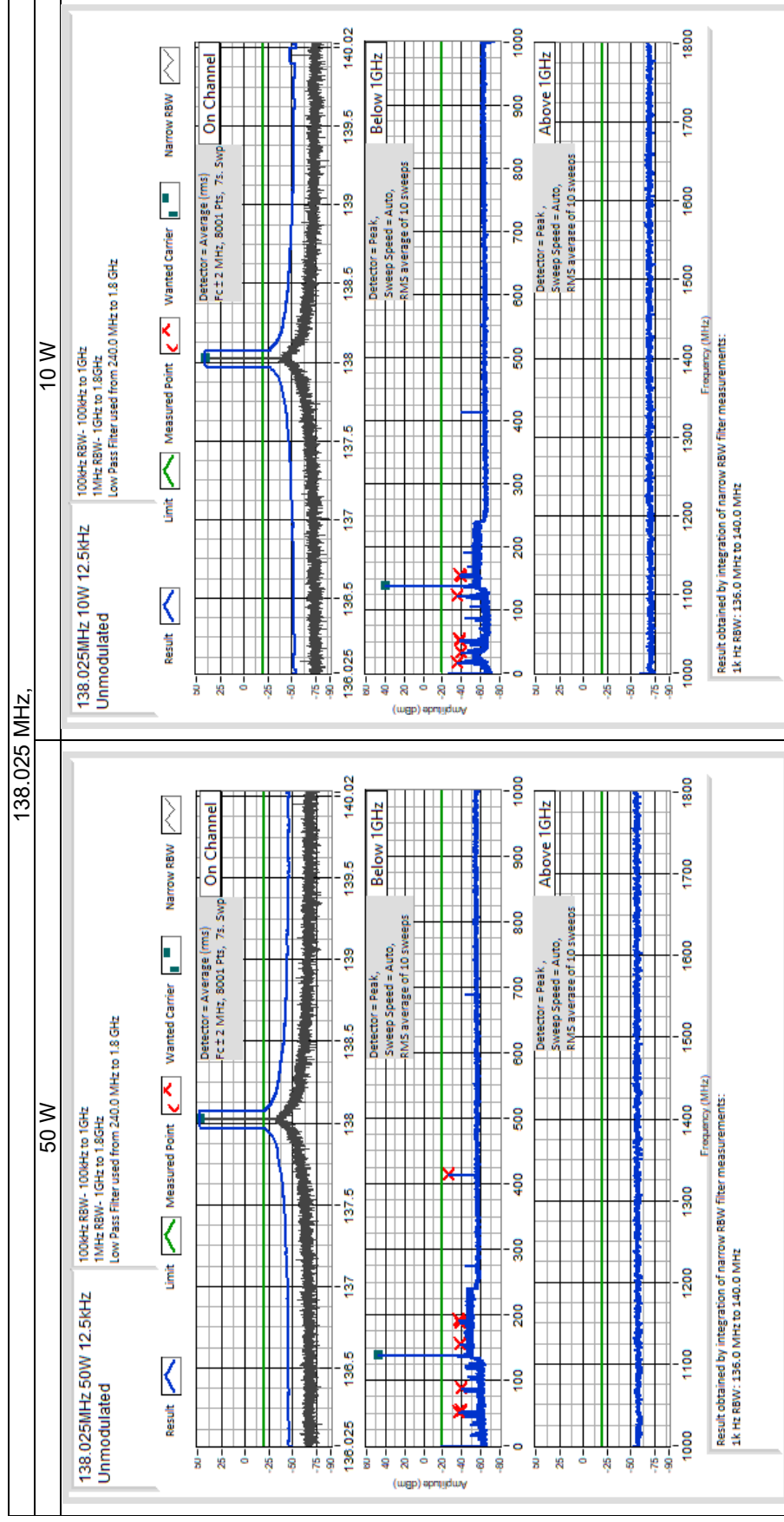
12.5 kHz Channel Spacing

138.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
16.047	-36.1	-76.1
32.094	-39.4	-79.4
50.066	-38.6	-78.6
53.932	-38.4	-78.4
121.986	-36.2	-76.2
154.073	-39.3	-79.3
156.002	-37.7	-77.7

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

143.975 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
27.952	-31.6	-78.6
67.928	-35	-82.0
76.052	-34.6	-81.6
107.905	-36.4	-83.4
116.028	-34.9	-81.9
131.946	-39.2	-86.2
156.008	-39	-86.0
171.929	-32.3	-79.3
180.056	-31.4	-78.4
287.97	-38.2	-85.2
431.972	-26.9	-73.9

12.5 kHz Channel Spacing

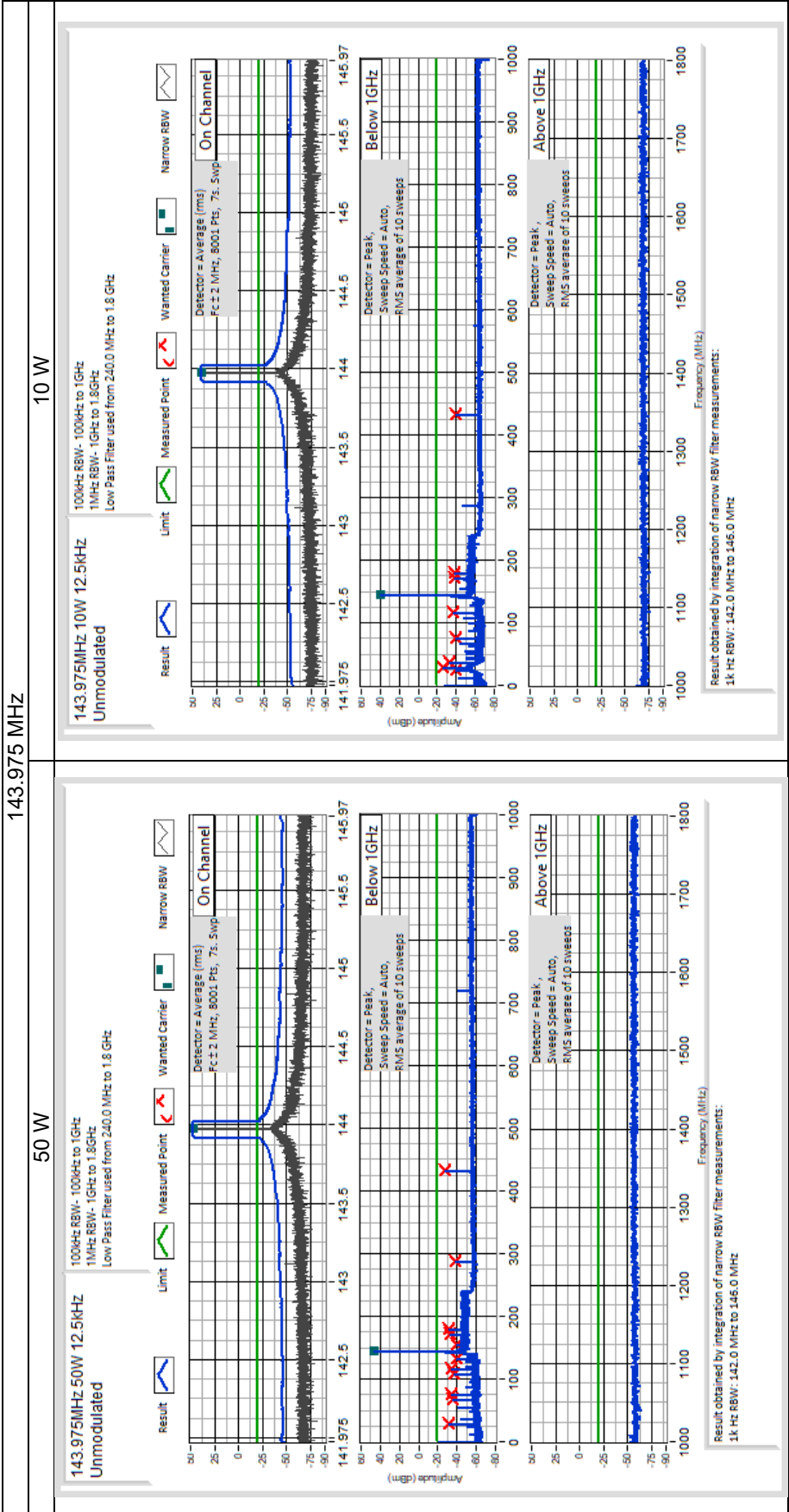
143.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
24.037	-39.1	-79.1
27.952	-26.3	-66.3
36.075	-33.1	-73.1
76.052	-39.3	-79.3
116.028	-36.6	-76.6
171.918	-37.7	-77.7
180.045	-37.9	-77.9
431.972	-39.1	-79.1

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

148.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
36.051	-39.9	-86.9
67.958	-33.9	-80.9
80.073	-35.1	-82.1
111.98	-33.1	-80.1
124.094	-35.2	-82.2
140.039	-37.5	-84.5
156.001	-34.5	-81.5
171.95	-32.2	-79.2
184.077	-33.4	-80.4
296.042	-33.7	-80.7
444.034	-27	-74.0

12.5 kHz Channel Spacing

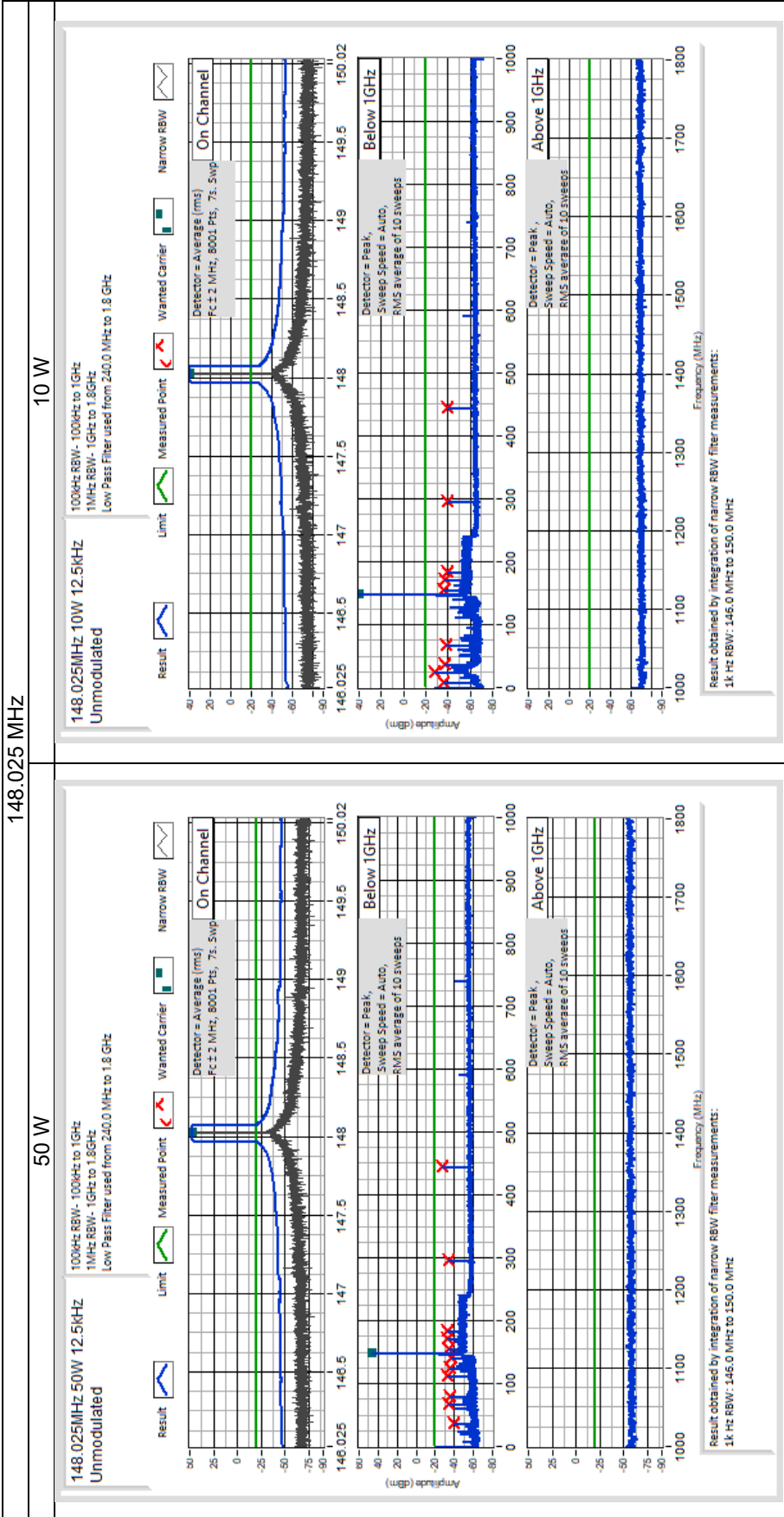
148.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
7.974	-36.6	-76.6
23.919	-27.9	-67.9
36.051	-37.8	-77.8
67.941	-38.1	-78.1
156.001	-36.2	-76.2
171.939	-36.8	-76.8
184.077	-39.2	-79.2
296.042	-39.3	-79.3
444.034	-39.3	-79.3

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

150.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
63.958	-36.4	-83.4
86.081	-36.1	-83.1
109.974	-35.4	-82.4
132.097	-33.6	-80.6
155.999	-33.5	-80.5
167.964	-37.2	-84.2
178.135	-39	-86.0
190.078	-35	-82.0
300.032	-28	-75.0
450.065	-27	-74.0

12.5 kHz Channel Spacing

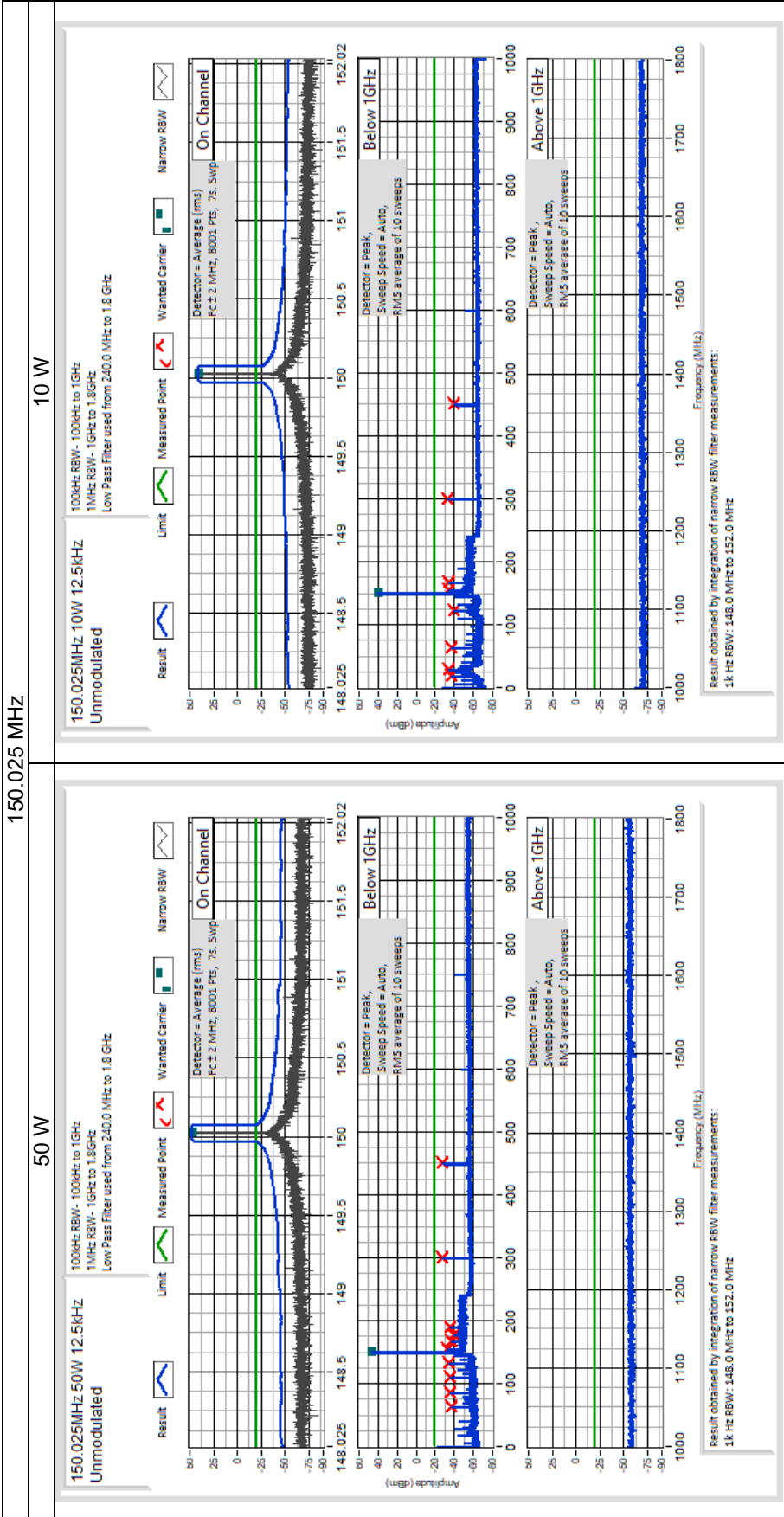
150.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
17.925	-37.5	-77.5
28.11	-33.8	-73.8
63.94	-37.1	-77.1
121.929	-39.6	-79.6
155.999	-33.9	-73.9
167.953	-34.3	-74.3
300.032	-32.3	-72.3
450.065	-39.5	-79.5

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

150.050 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
63.897	-36.1	-83.1
86.15	-36.3	-83.3
109.956	-35.2	-82.2
132.191	-33.8	-80.8
144.094	-39.4	-86.4
155.991	-35.9	-82.9
167.898	-37.1	-84.1
178.249	-38.8	-85.8
190.157	-35.4	-82.4
300.125	-27.8	-74.8
450.157	-27.1	-74.1

12.5 kHz Channel Spacing

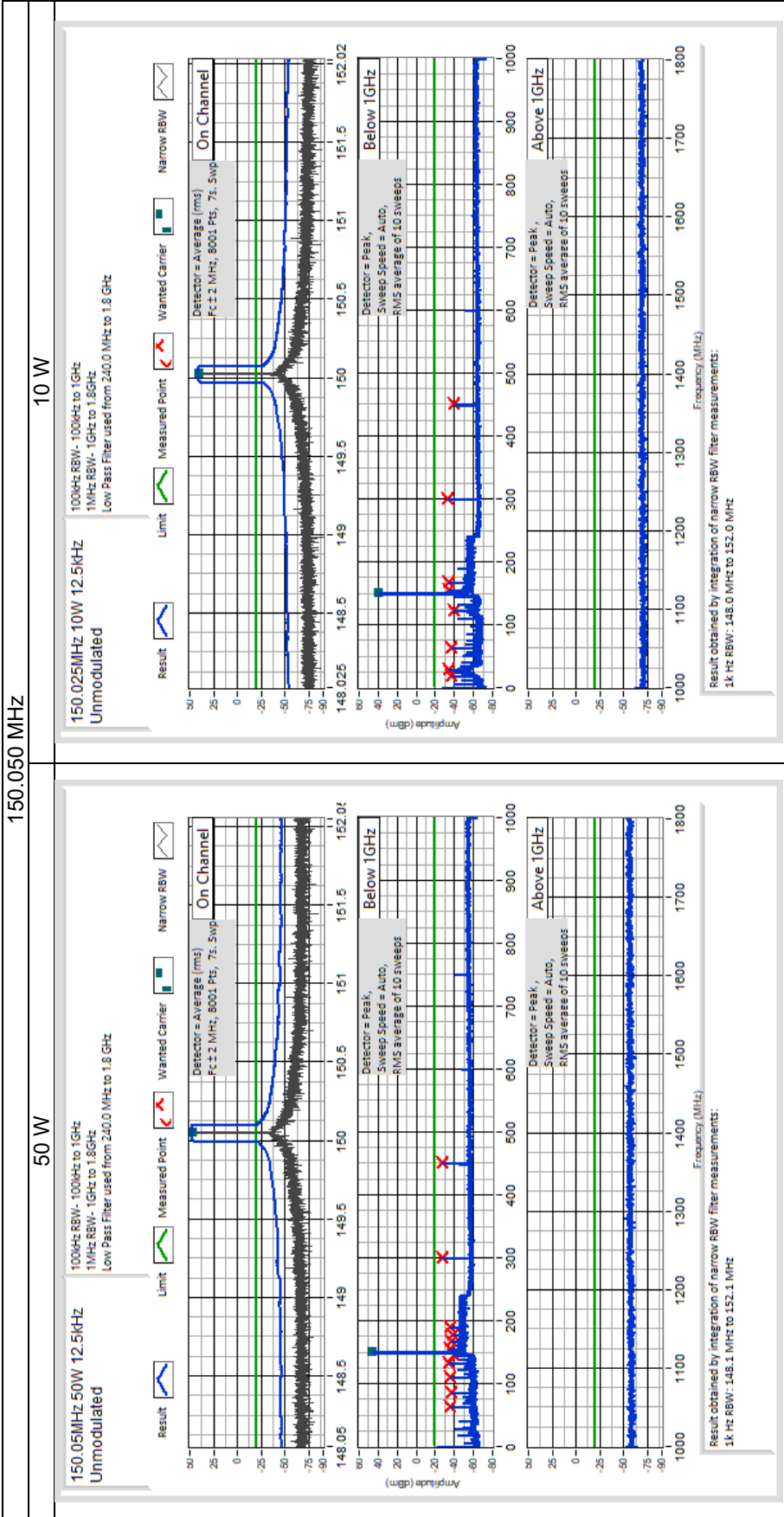
150.050 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
17.855	-37.4	-77.4
28.205	-33.9	-73.9
63.897	-37.1	-77.1
121.841	-39.5	-79.5
156.001	-33.9	-73.9
167.898	-34.6	-74.6
300.125	-32.3	-72.3
450.157	-39.4	-79.4

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

156.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
52.06	-39.5	-86.5
103.982	-37.3	-84.3
312.094	-28.8	-75.8
468.065	-27.4	-74.4

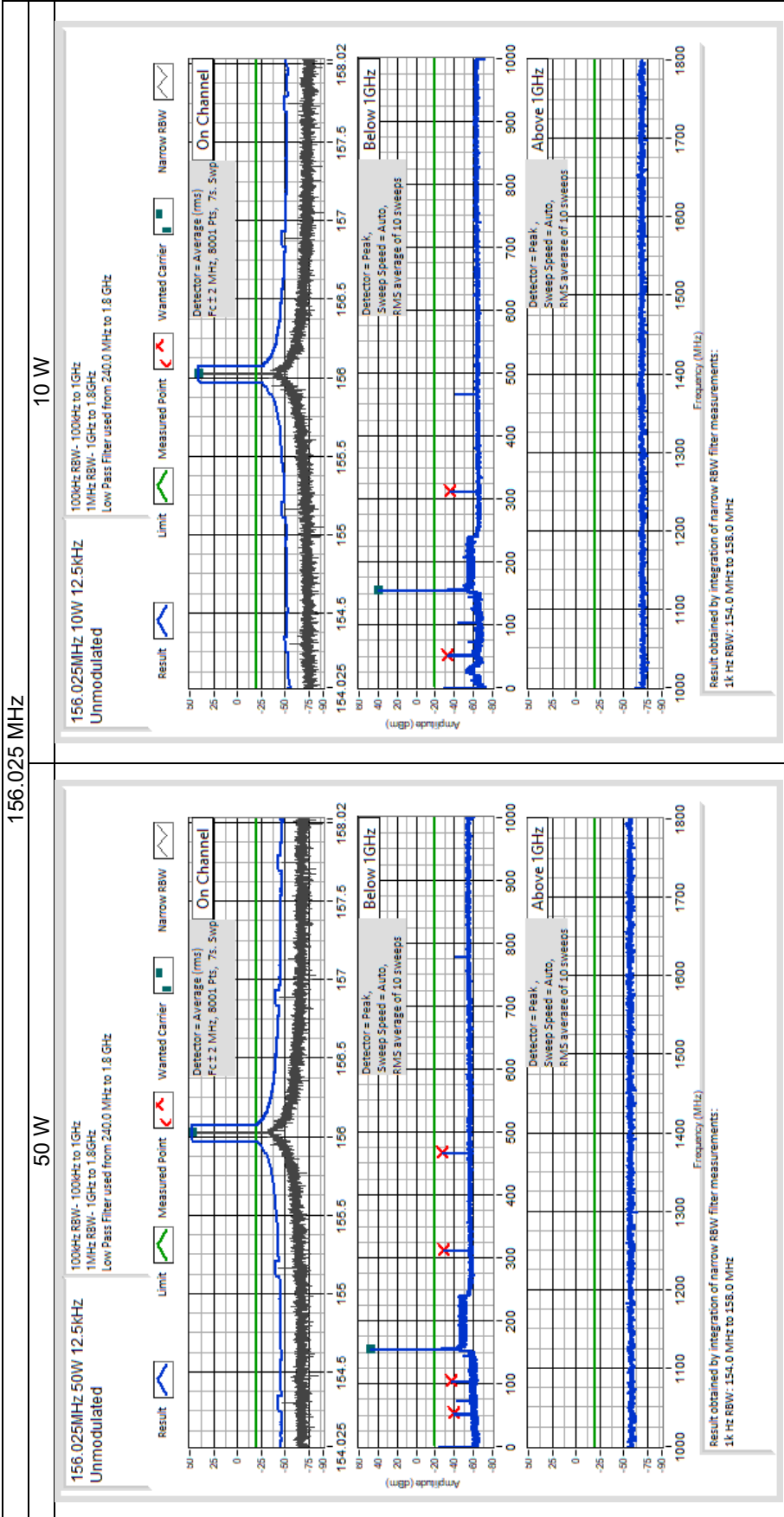
12.5 kHz Channel Spacing

156.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
51.966	-32.9	-72.9
312.094	-35.6	-75.6

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

161.975 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
40.054	-36.6	-83.6
63.945	-39.9	-86.9
98.024	-36	-83.0
121.934	-34.1	-81.1
144.048	-38.6	-85.6
155.993	-34.1	-81.1
161.112	-38	-85.0
167.966	-34.7	-81.7
179.902	-38.8	-85.8
202.02	-31.5	-78.5
323.97	-36.4	-83.4
485.88	-26.9	-73.9

12.5 kHz Channel Spacing

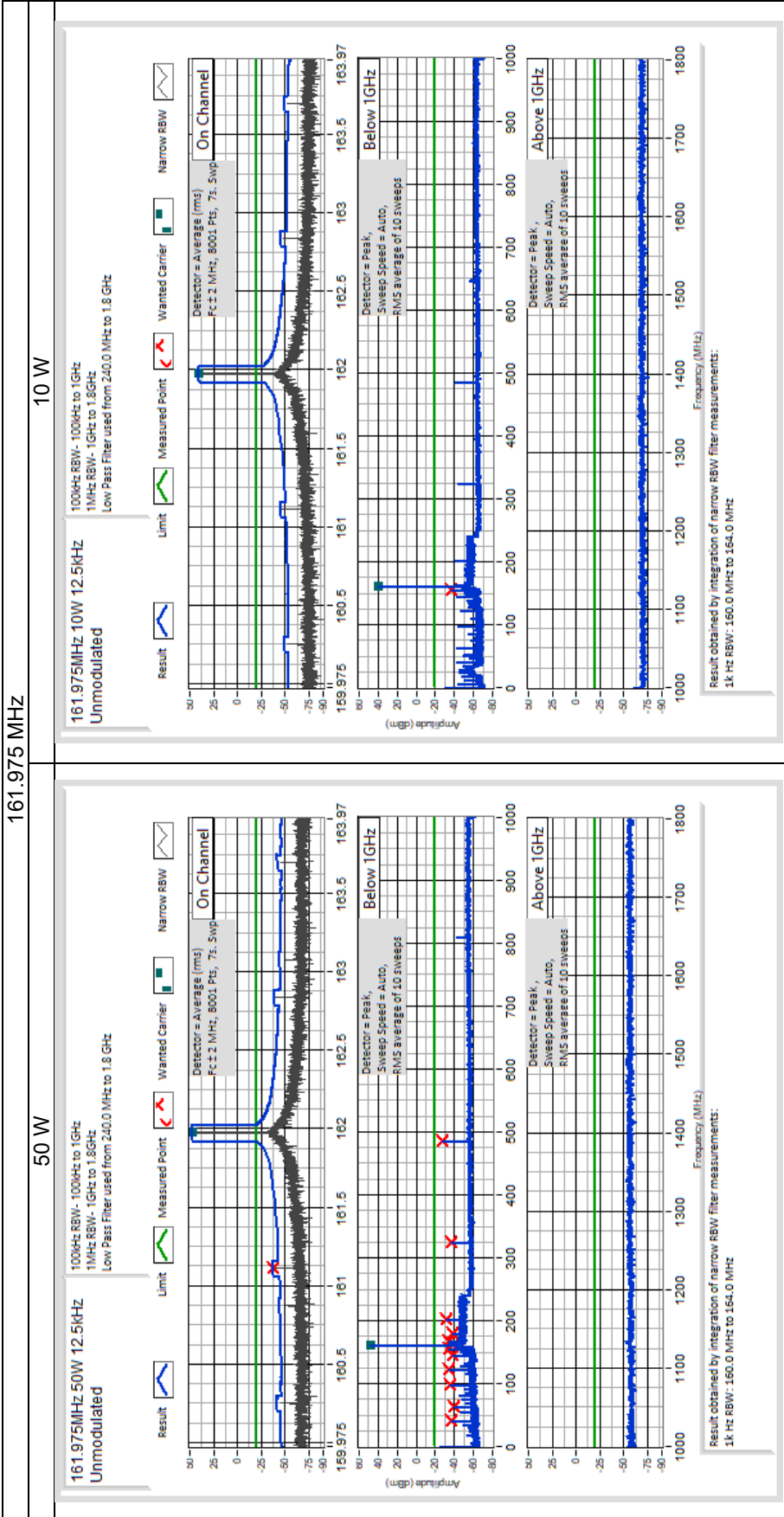
161.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
155.993	-36.4	-76.4

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

162.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
39.949	-36.6	-83.6
64.062	-39.7	-86.7
97.976	-35.7	-82.7
122.069	-33.9	-80.9
143.956	-38.1	-85.1
156.003	-34.3	-81.3
161.162	-38.3	-85.3
168.041	-35.7	-82.7
180.099	-38.3	-85.3
201.98	-31.3	-78.3
324.063	-36.6	-83.6
486.065	-27	-74.0

12.5 kHz Channel Spacing

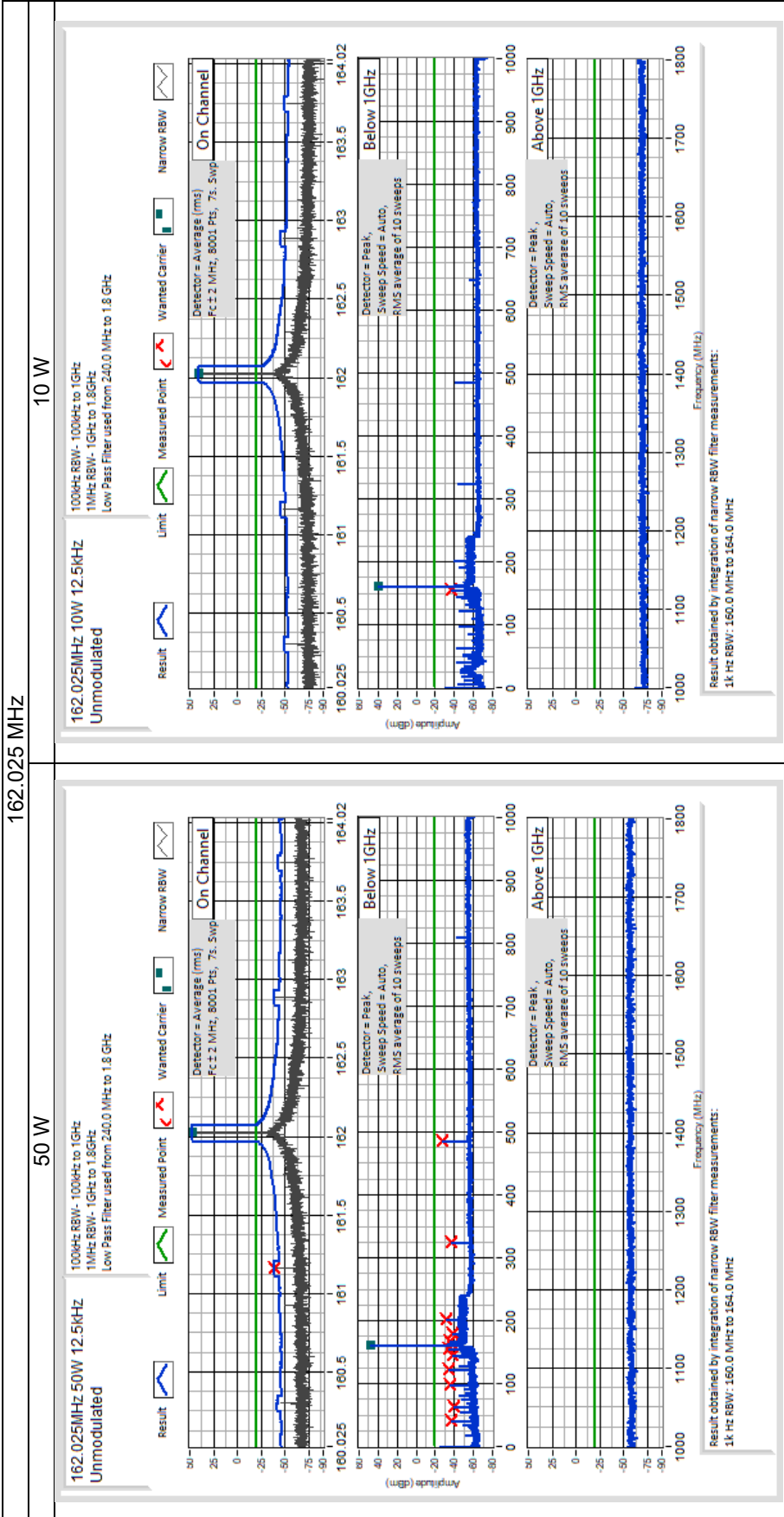
162.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
156.003	-36.3	-76.3

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

173.975 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
86.027	-34.6	-81.6
87.957	-33.8	-80.8
120.041	-33.1	-80.1
156.007	-33.2	-80.2
157.916	-27.9	-74.9
190.029	-28.8	-75.8
191.952	-34.7	-81.7
521.88	-26.9	-73.9

12.5 kHz Channel Spacing

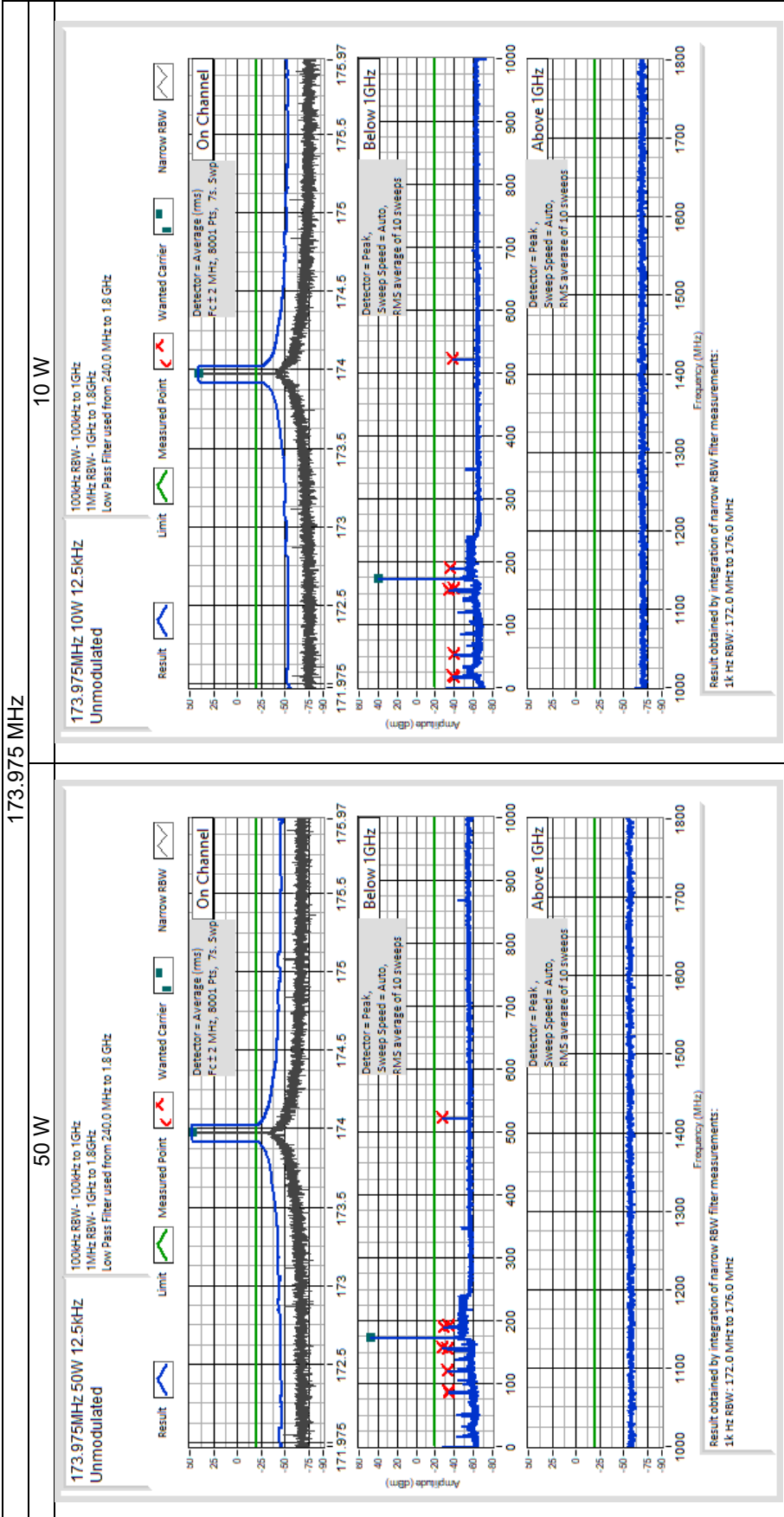
173.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
16.047	-39.8	-79.8
17.978	-37.7	-77.7
53.922	-39.4	-79.4
156.007	-33.6	-73.6
157.916	-39.9	-79.9
190.029	-35.3	-75.3
521.88	-38.5	-78.5

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

378.125 MHz @ 40 W

Emission Mask D

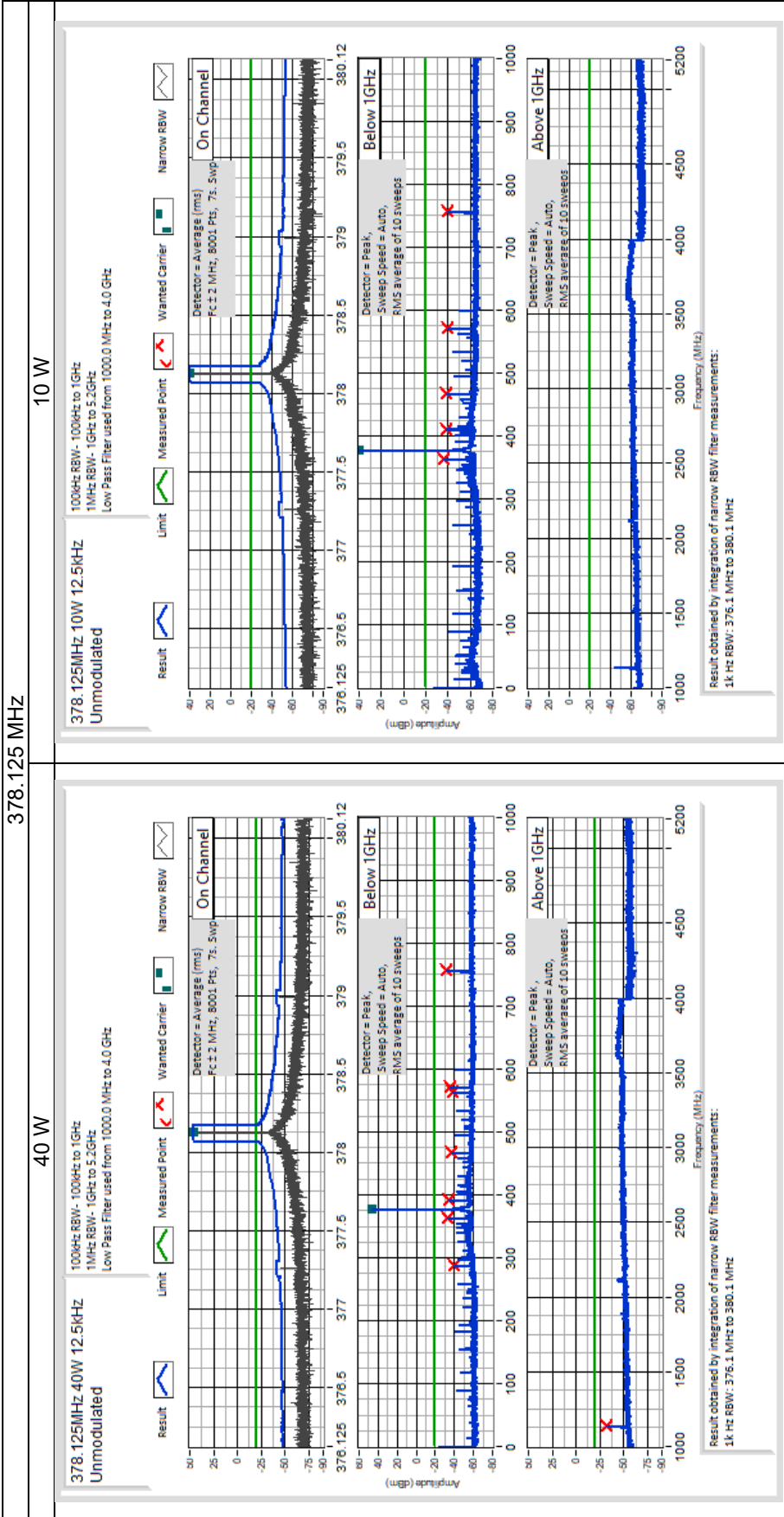
Emission Frequency (MHz)	Level (dBm)	Level (dBc)
288.259	-39.9	-85.9
364.006	-32.9	-78.9
392.233	-33.8	-79.8
467.987	-36.9	-82.9
562.357	-38.4	-84.4
571.968	-36.2	-82.2
756.243	-31.2	-77.2
1134.416	-32.2	-78.2

12.5 kHz Channel Spacing

378.125 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
364.006	-36.6	-76.6
411.153	-38.6	-78.6
467.987	-38.8	-78.8
571.968	-39.3	-79.3
756.243	-40	-80.0



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

406.125 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
165.883	-39.5	-85.5
344.244	-32.1	-78.1
364.023	-34.6	-80.6
448.229	-35.8	-81.8
468.028	-32.2	-78.2
562.109	-37.2	-83.2
572.009	-34.4	-80.4
812.271	-33.5	-79.5
1218.288	-32.3	-78.3
2116.713	-38.1	-84.1

12.5 kHz Channel Spacing

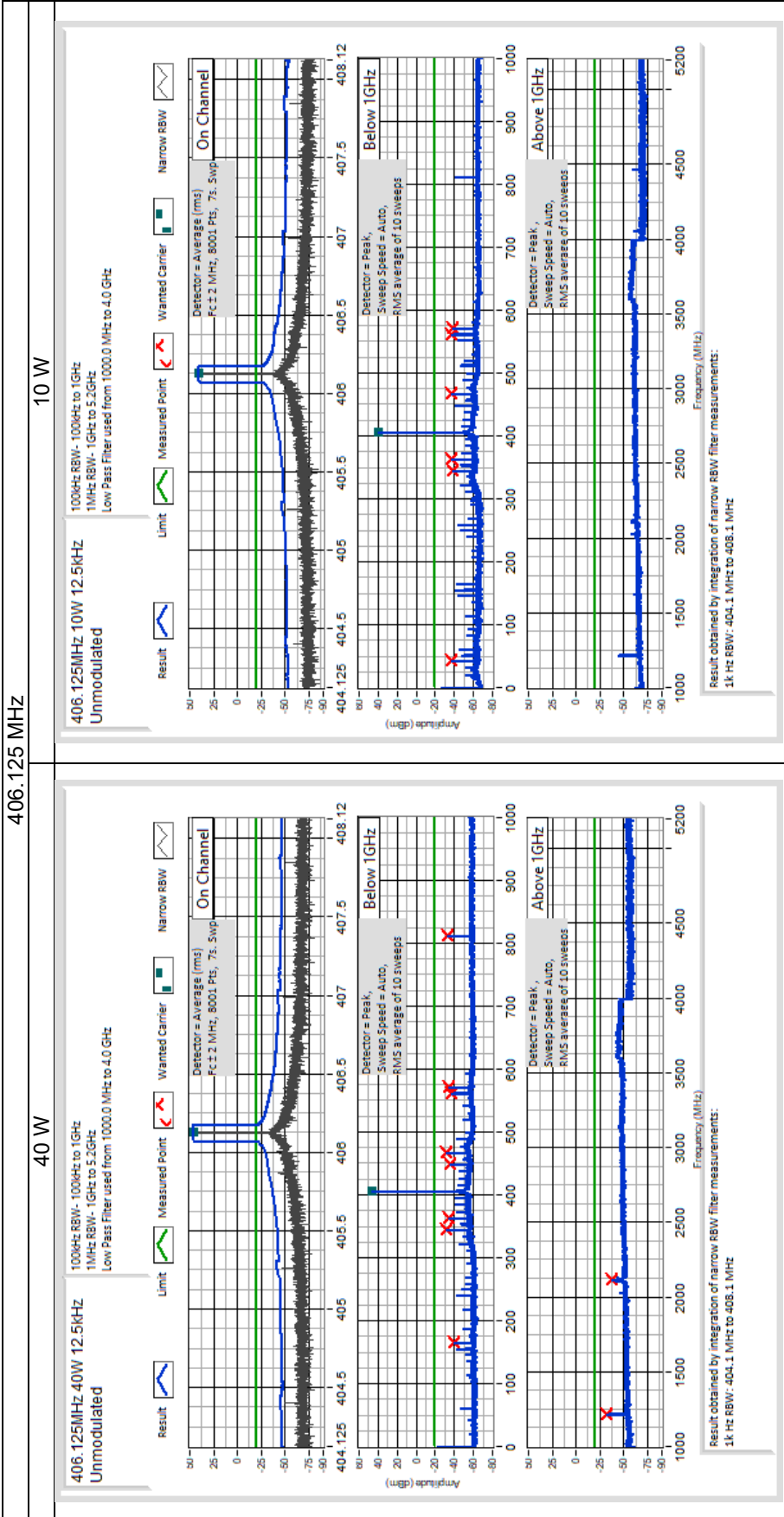
406.125 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
42.125	-36.8	-76.8
344.244	-38.3	-78.3
363.974	-36.4	-76.4
468.028	-37.4	-77.4
562.109	-37.2	-77.2
572.009	-37.7	-77.7

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

418.025 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
363.977	-34.6	-80.6
368.04	-33.8	-79.8
468.032	-35.2	-81.2
472.068	-34.1	-80.1
571.975	-35.3	-81.3
574.029	-34.9	-80.9
836.083	-30.6	-76.6
1253.815	-32.8	-78.8
2116.347	-39.4	-85.4

12.5 kHz Channel Spacing

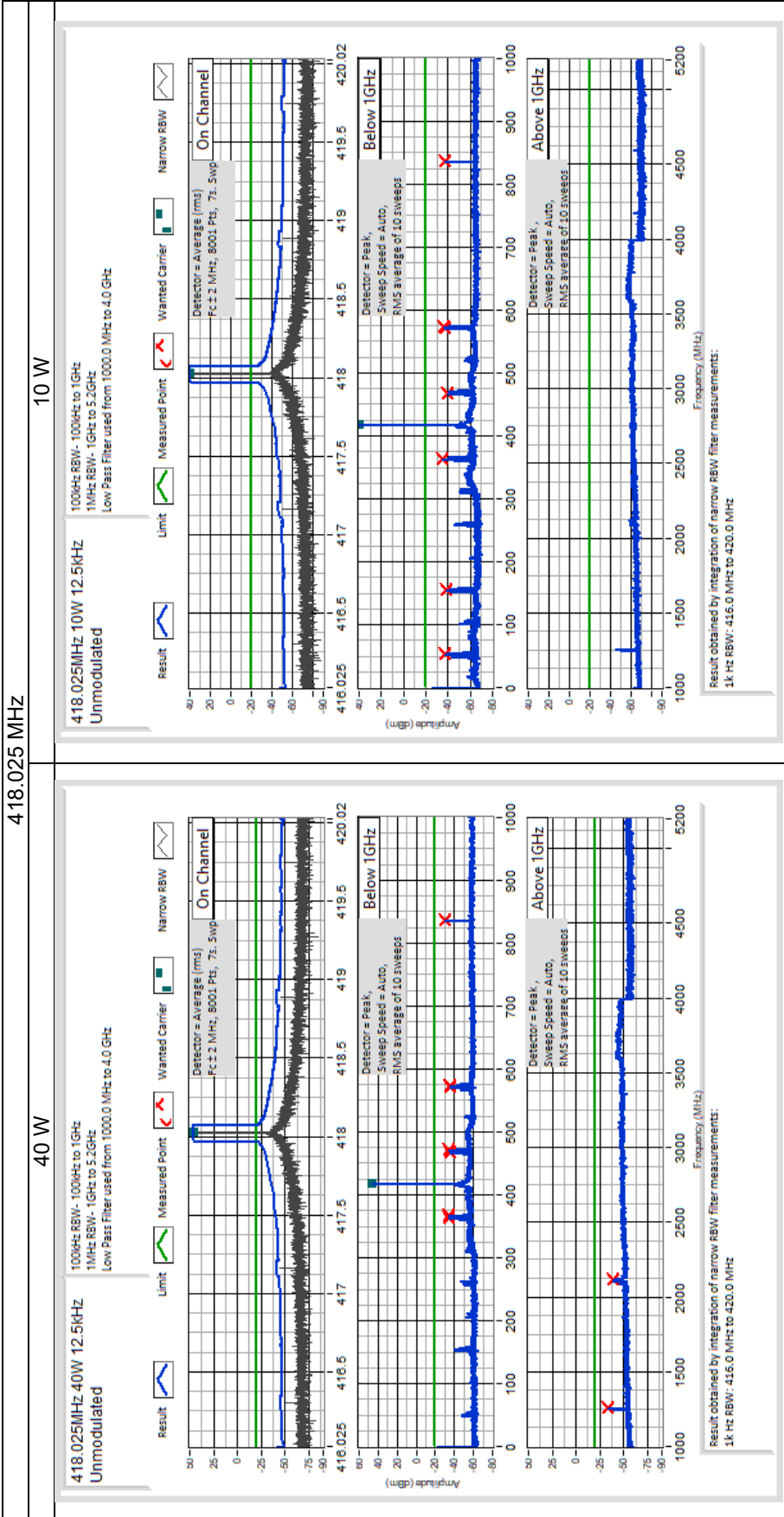
418.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
54.027	-37.7	-77.7
155.989	-38.9	-78.9
363.977	-35.1	-75.1
468.032	-39.5	-79.5
571.975	-37.8	-77.8
574.029	-35.9	-75.9
836.083	-37.2	-77.2

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

429.975 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
363.984	-35.7	-81.7
391.931	-36.6	-82.6
467.966	-37.5	-83.5
495.983	-34.7	-80.7
571.988	-38.9	-84.9
859.918	-29.7	-75.7
1289.708	-32.8	-78.8

12.5 kHz Channel Spacing

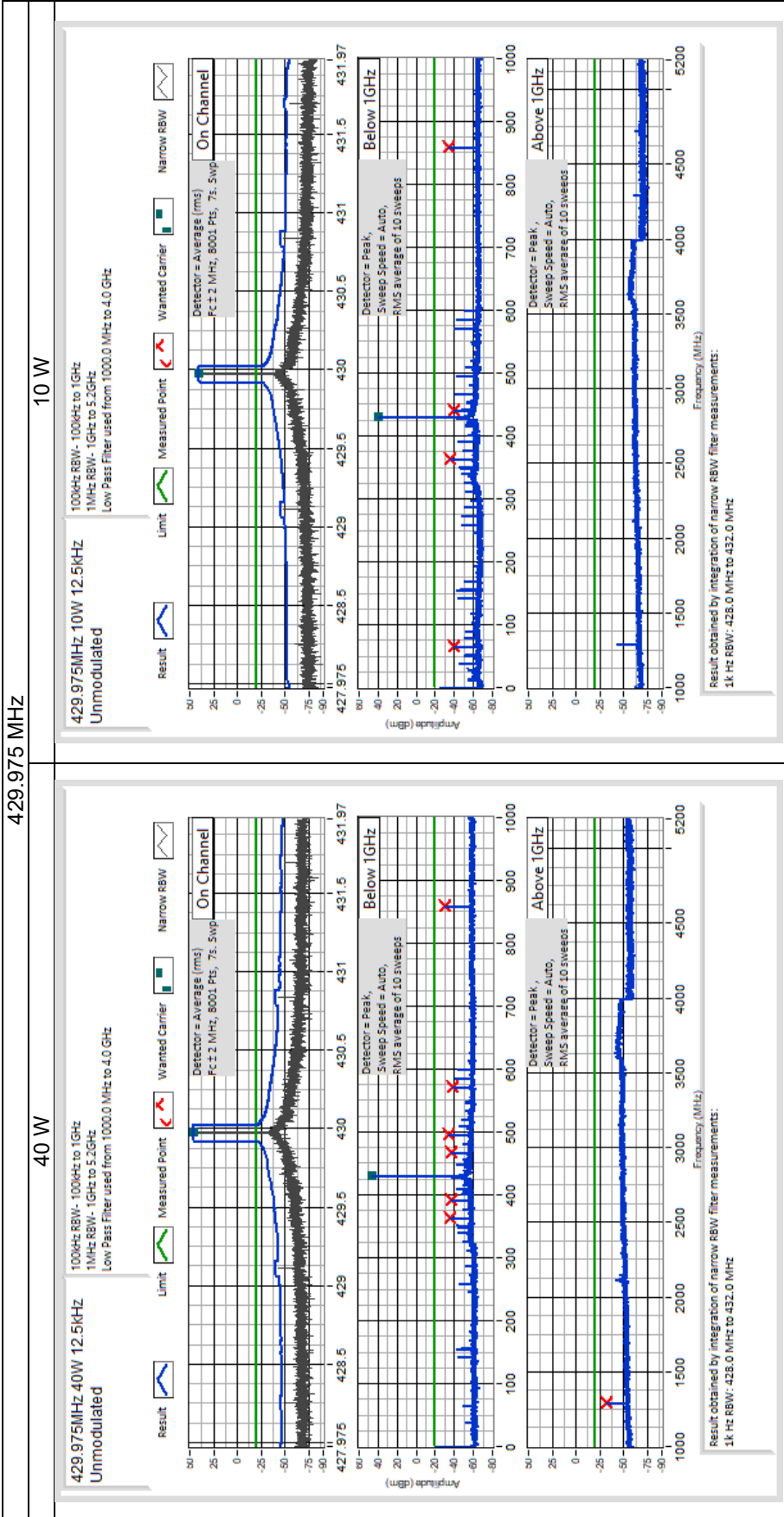
429.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
65.971	-39.2	-79.2
363.984	-36.2	-76.2
441.684	-39.4	-79.4
859.918	-34.6	-74.6

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

438.025 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
364.018	-35.3	-81.3
408.031	-36.4	-82.4
467.986	-36.5	-82.5
512.013	-36.5	-82.5
876.055	-32.3	-78.3
1313.881	-32	-78.0

12.5 kHz Channel Spacing

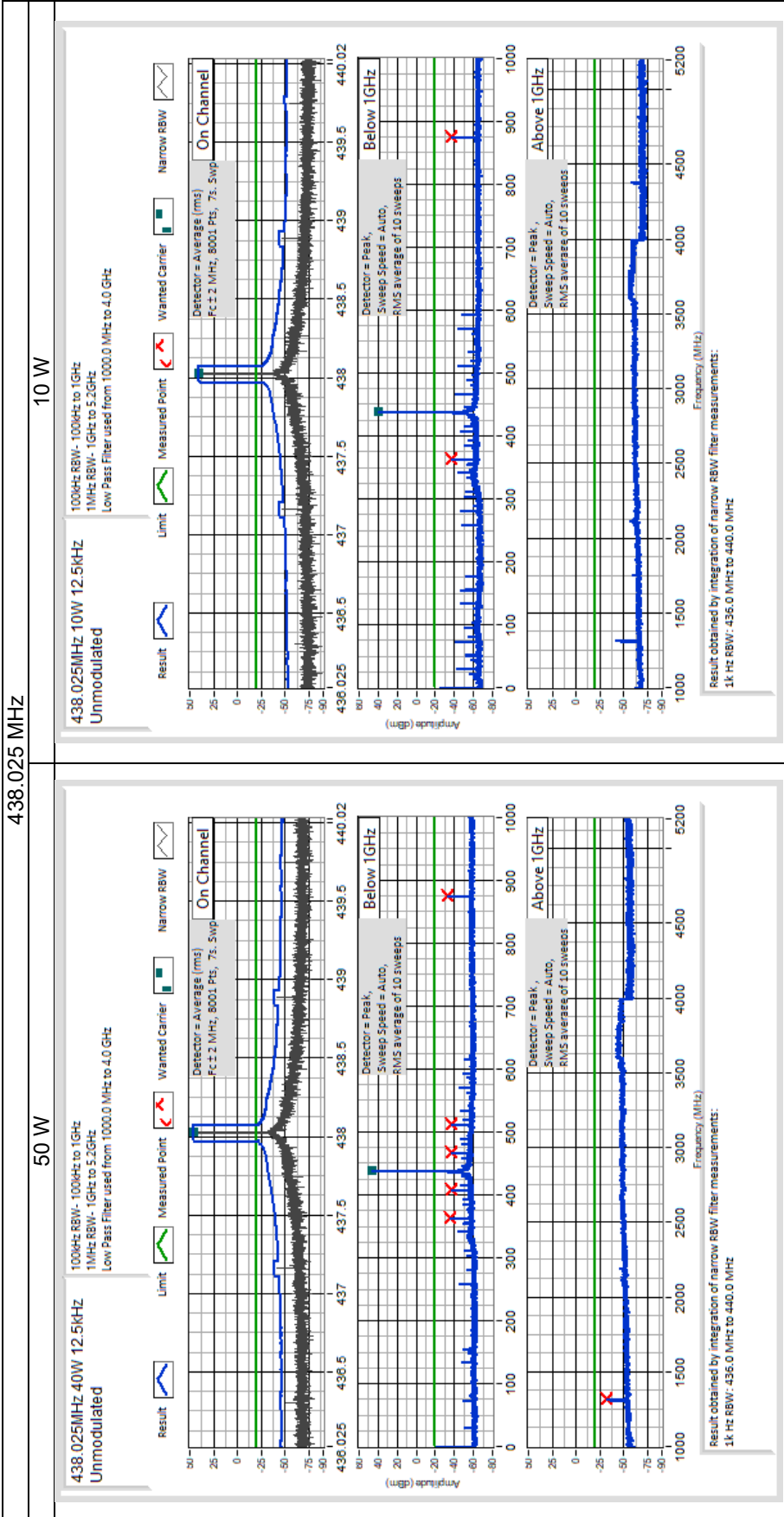
438.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
364.018	-36.5	-76.5
876.055	-36.7	-76.7

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

450.025 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
328.046	-39.8	-85.8
364.029	-32.4	-78.4
432.057	-36.6	-82.6
449.162	-38.1	-84.1
468.014	-33.8	-79.8
496.982	-36	-82.0
536.051	-35.8	-81.8
900.052	-33.3	-79.3
1350.14	-32	-78.0

12.5 kHz Channel Spacing

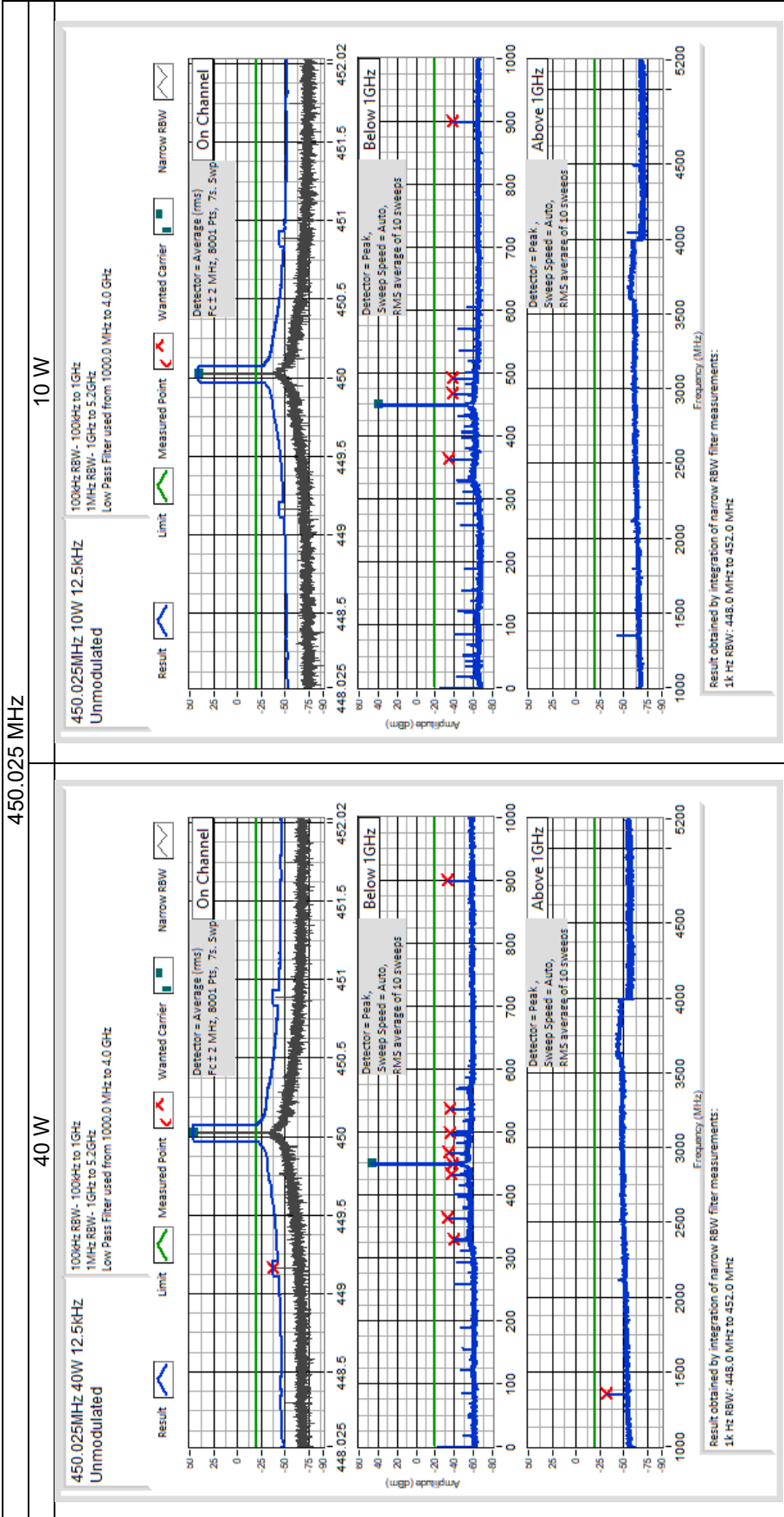
450.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
363.974	-33.8	-73.8
468.014	-38	-78.0
492.432	-38.8	-78.8
900.052	-38.9	-78.9

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

460.025 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
260.006	-38.7	-84.7
304.004	-35.6	-81.6
319.993	-39.1	-85.1
348.058	-39.6	-85.6
363.991	-29.6	-75.6
452.043	-36.2	-82.2
459.162	-37.8	-83.8
460.887	-37.7	-83.7
468.002	-33.4	-79.4
556.077	-34	-80.0
920.069	-34	-80.0
1379.807	-32.8	-78.8

12.5 kHz Channel Spacing

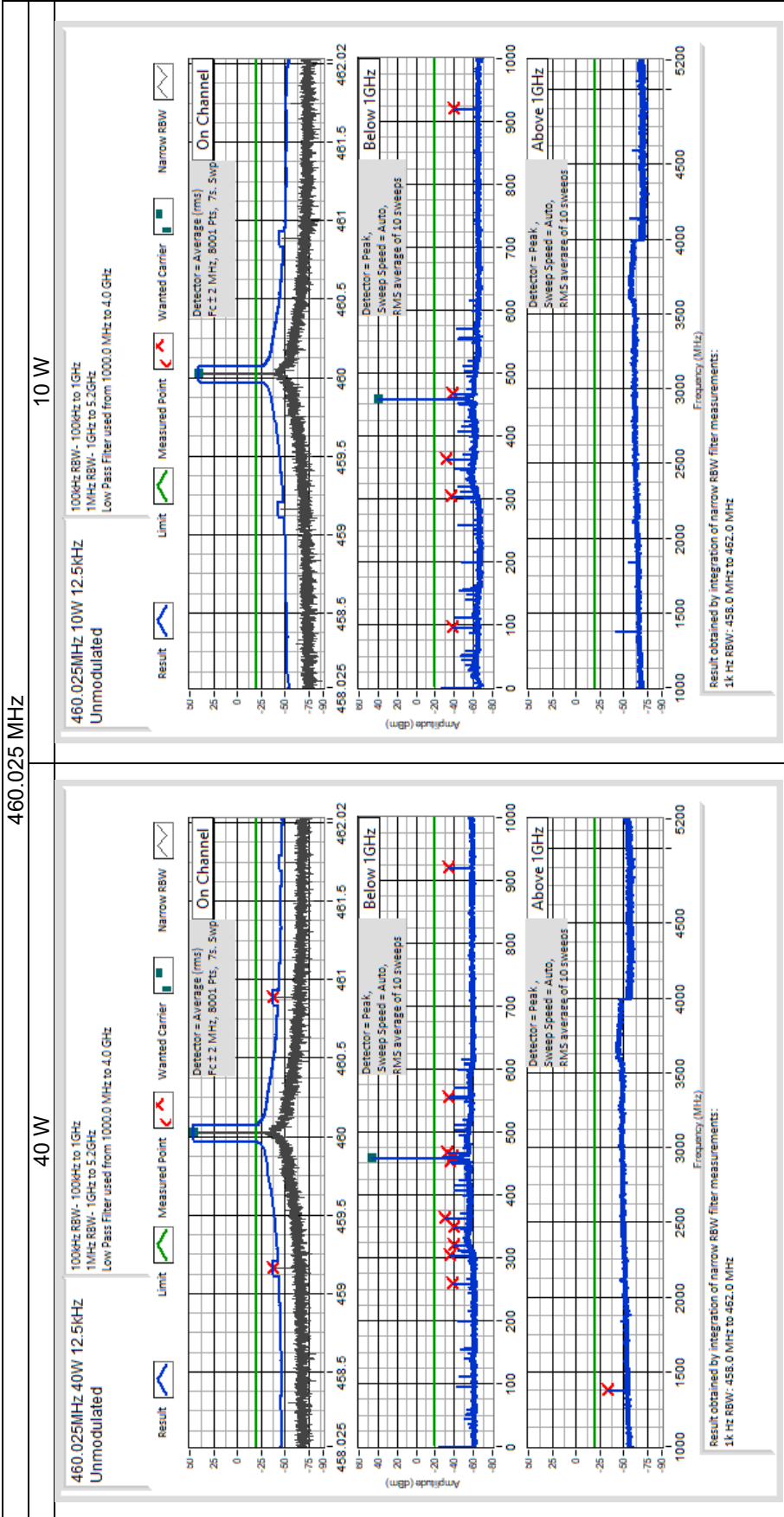
460.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
96.034	-38	-78.0
304.004	-37.2	-77.2
363.991	-31.3	-71.3
468.002	-38.1	-78.1
920.069	-39.1	-79.1

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

469.975 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
155.982	-38.4	-84.4
259.999	-37.2	-83.2
313.978	-29.2	-75.2
364.015	-27.9	-73.9
367.957	-39.7	-85.7
415.995	-39.3	-85.3
417.994	-38.1	-84.1
467.975	-33.5	-79.5
468.00	-33	-79.0
469.112	-37.2	-83.2
470.837	-37.4	-83.4
471.95	-37.6	-83.6
471.975	-37.7	-83.7
521.999	-38.9	-84.9
575.956	-33.4	-79.4
939.92	-35.1	-81.1
1409.84	-32.2	-78.2

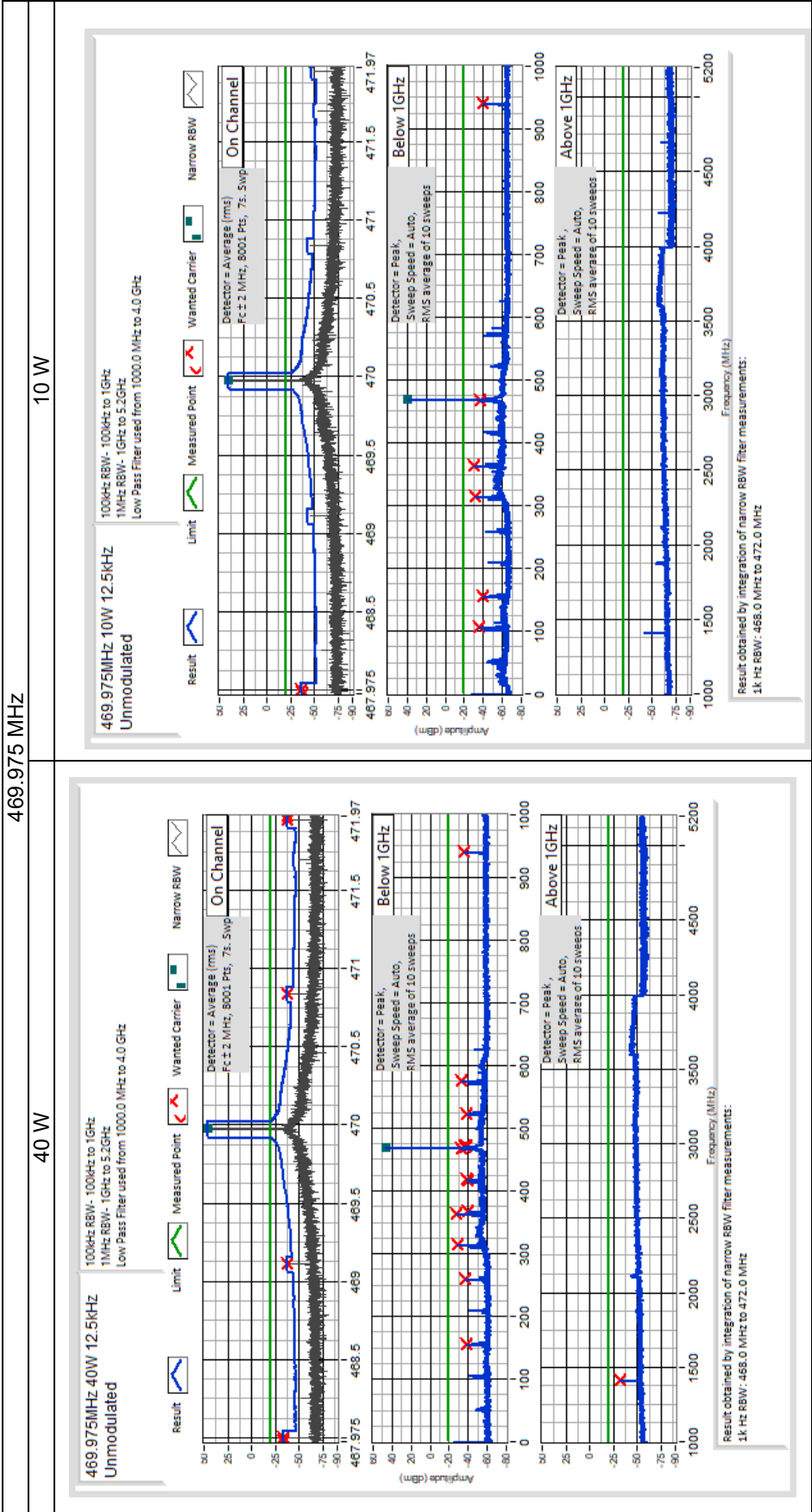
12.5 kHz Channel Spacing

469.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
106.002	-35.8	-75.8
155.982	-40	-80.0
313.978	-31.7	-71.7
364.015	-29.6	-69.6
467.975	-37.2	-77.2
468	-36.8	-76.8
939.92	-39.8	-79.8

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

491.025 MHz @ 40 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
127.002	-39.6	-85.6
156.012	-27.8	-73.8
231.043	-37.6	-83.6
259.992	-34.2	-80.2
311.983	-37.7	-83.7
335.023	-21.5	-67.5
340.993	-37.2	-83.2
363.973	-26	-72.0
410.054	-35.9	-81.9
439.004	-39.7	-85.7
468.014	-33.4	-79.4
514.069	-33.7	-79.7
543.035	-38.8	-84.8
572.002	-38.2	-84.2
618.051	-36	-82.0
982.051	-34.6	-80.6
1472.836	-31.9	-77.9

12.5 kHz Channel Spacing

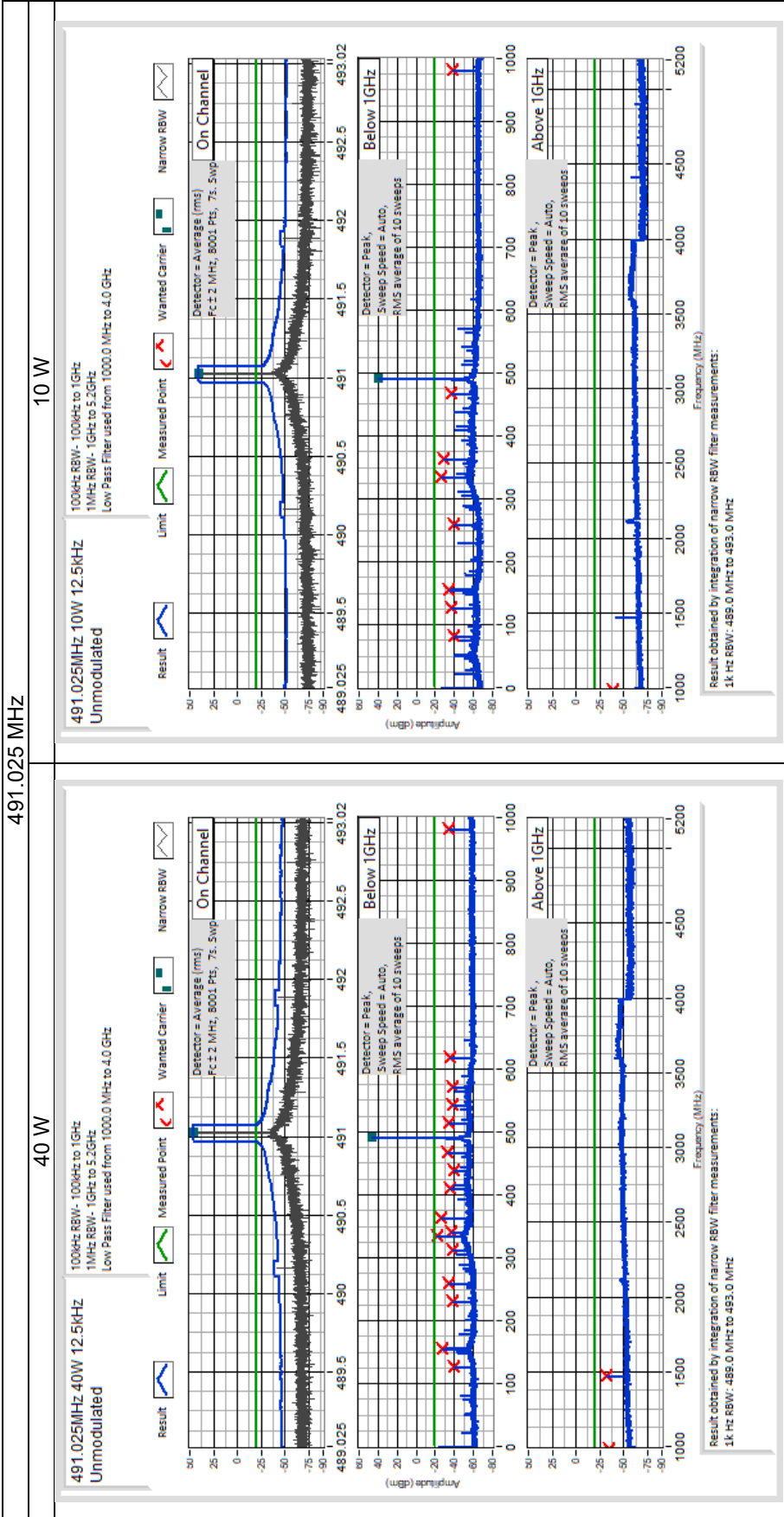
491.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
80.981	-39.9	-79.9
127.002	-36.3	-76.3
156.012	-34	-74.0
259.992	-39.9	-79.9
335.023	-26.4	-66.4
363.973	-28.4	-68.4
468.014	-36.7	-76.7
982.051	-38.4	-78.4

TELTEST Laboratories
Tait International Ltd
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Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

511.975 MHz @ 40 W

Emission Mask D

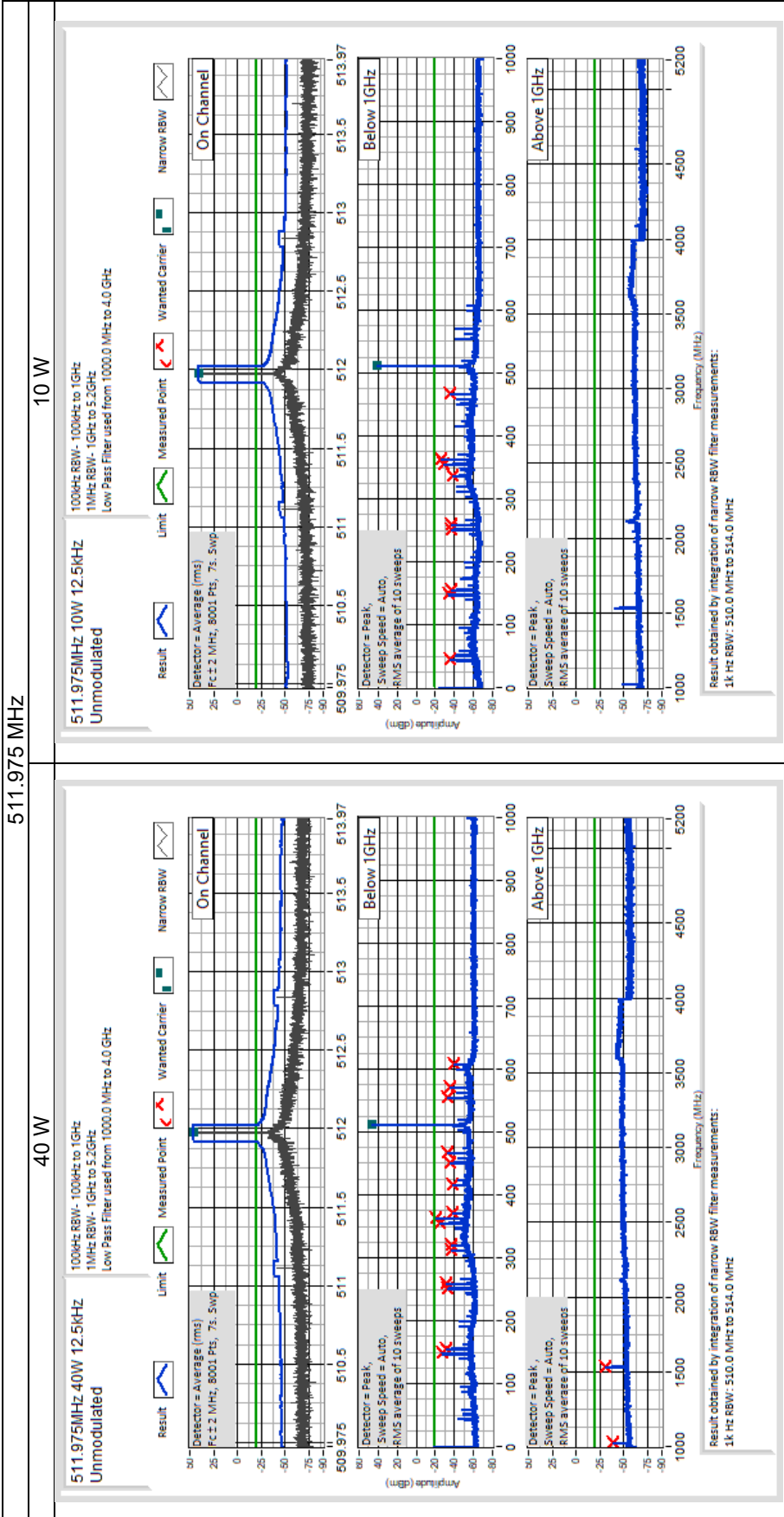
Emission Frequency (MHz)	Level (dBm)	Level (dBc)
148.002	-28	-74.0
156.032	-31.6	-77.6
251.956	-33.2	-79.2
259.986	-31.9	-77.9
312.026	-36.7	-82.7
319.993	-37.4	-83.4
355.973	-24.3	-70.3
364.003	-21.2	-67.2
372.033	-38.3	-84.3
415.98	-38	-84.0
451.96	-36.2	-82.2
468.02	-33.5	-79.5
555.926	-33.1	-79.1
572.006	-35.3	-81.3
607.964	-39	-85.0
1023.807	-38.7	-84.7
1535.832	-31.3	-77.3

12.5 kHz Channel Spacing

511.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
43.985	-35.5	-75.5
148.002	-34.6	-74.6
155.969	-36.9	-76.9
251.956	-37.5	-77.5
259.986	-36.3	-76.3
337.547	-38.7	-78.7
355.973	-28.8	-68.8
364.003	-26.3	-66.3
468.02	-36	-76.0



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

757.500 MHz @ 30 W

Emission Mask D

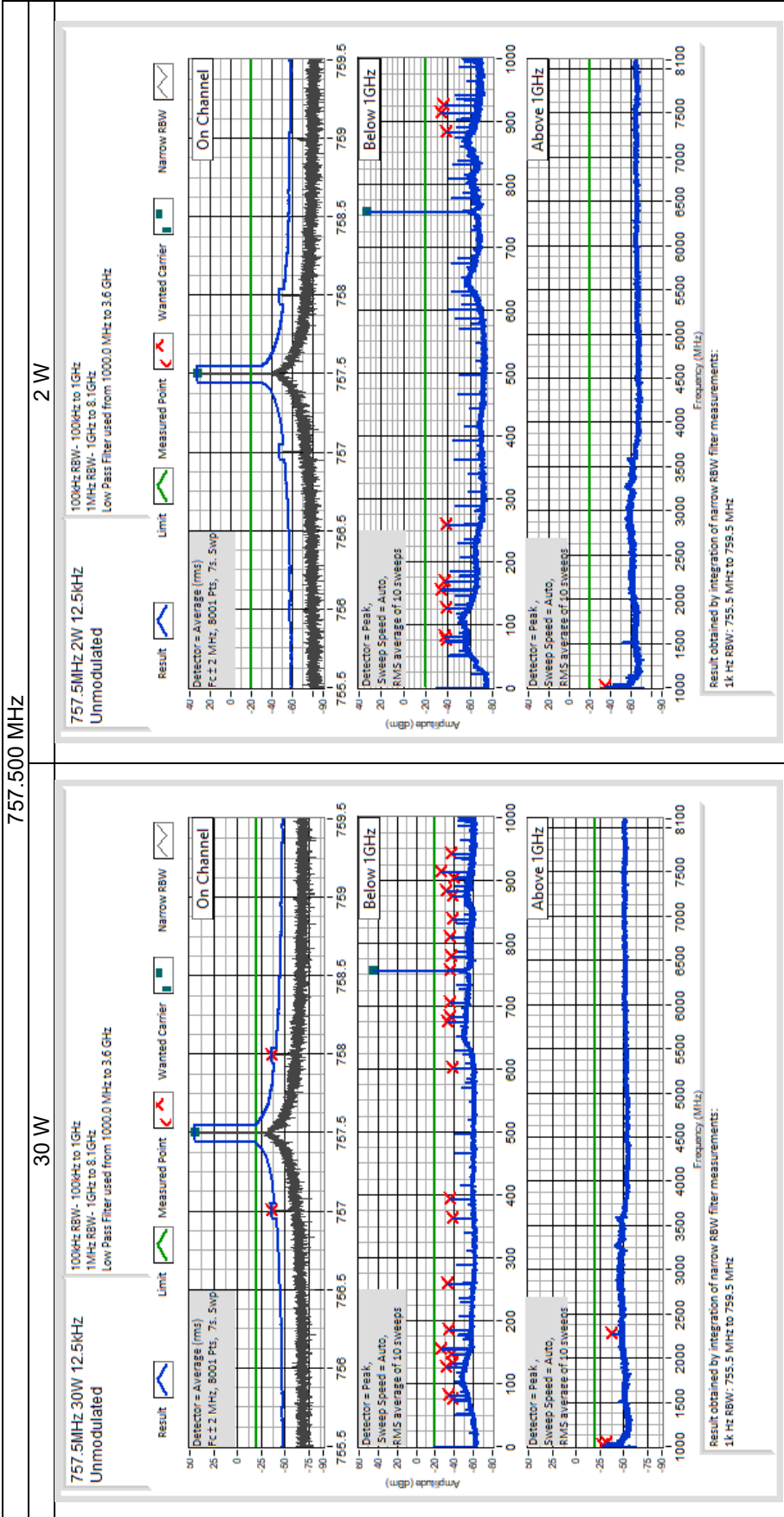
Emission Frequency (MHz)	Level (dBm)	Level (dBc)
74.524	-38.7	-83.5
81.533	-34.4	-79.2
126.538	-31.7	-76.5
133.547	-38.4	-83.2
147.473	-37.5	-82.3
155.957	-26.6	-71.4
185.469	-34.5	-79.3
259.985	-32.2	-77.0
364.013	-37.8	-82.6
393.524	-35.5	-80.3
601.487	-37.8	-82.6
676.004	-32.8	-77.6
683.013	-35.2	-80.0
705.515	-36.1	-80.9
757.003	-35.7	-80.5
757.996	-35.9	-80.7
779.994	-36.6	-81.4
809.503	-36	-80.8
839.011	-37.9	-82.7
875.507	-38.9	-83.7
883.993	-31.8	-76.6
904.986	-39.3	-84.1
913.501	-26.1	-70.9
943.009	-37	-81.8
1017.458	-27.5	-72.3
1046.661	-31.5	-76.3
2272.226	-38	-82.8

12.5 kHz Channel Spacing

757.500 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
74.524	-37.9	-70.9
81.533	-37.3	-70.3
126.538	-38.6	-71.6
155.957	-34.1	-67.1
169.33	-37	-70.0
259.985	-38.7	-71.7
883.993	-38.6	-71.6
913.501	-34.2	-67.2
926.567	-35.8	-68.8
1017.458	-34.8	-67.8



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

768.025 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
92.018	-31.6	-76.4
115.957	-30.5	-75.3
155.978	-25.6	-70.4
196	-35.7	-80.5
259.959	-33.9	-78.7
364.034	-38.8	-83.6
404.055	-35.1	-79.9
612.017	-34.3	-79.1
652.039	-35.3	-80.1
675.977	-30.9	-75.7
704.029	-37	-81.8
715.998	-36.3	-81.1
767.528	-34.5	-79.3
768.522	-34.3	-79.1
779.992	-37.6	-82.4
815.565	-35.1	-79.9
820.029	-34.8	-79.6
831.99	-38.9	-83.7
860.038	-39.3	-84.1
883.988	-32.4	-77.2
924.025	-26.6	-71.4
964.062	-38.7	-83.5
1027.933	-29.3	-74.1
1067.928	-34.1	-78.9
2303.968	-35.9	-80.7

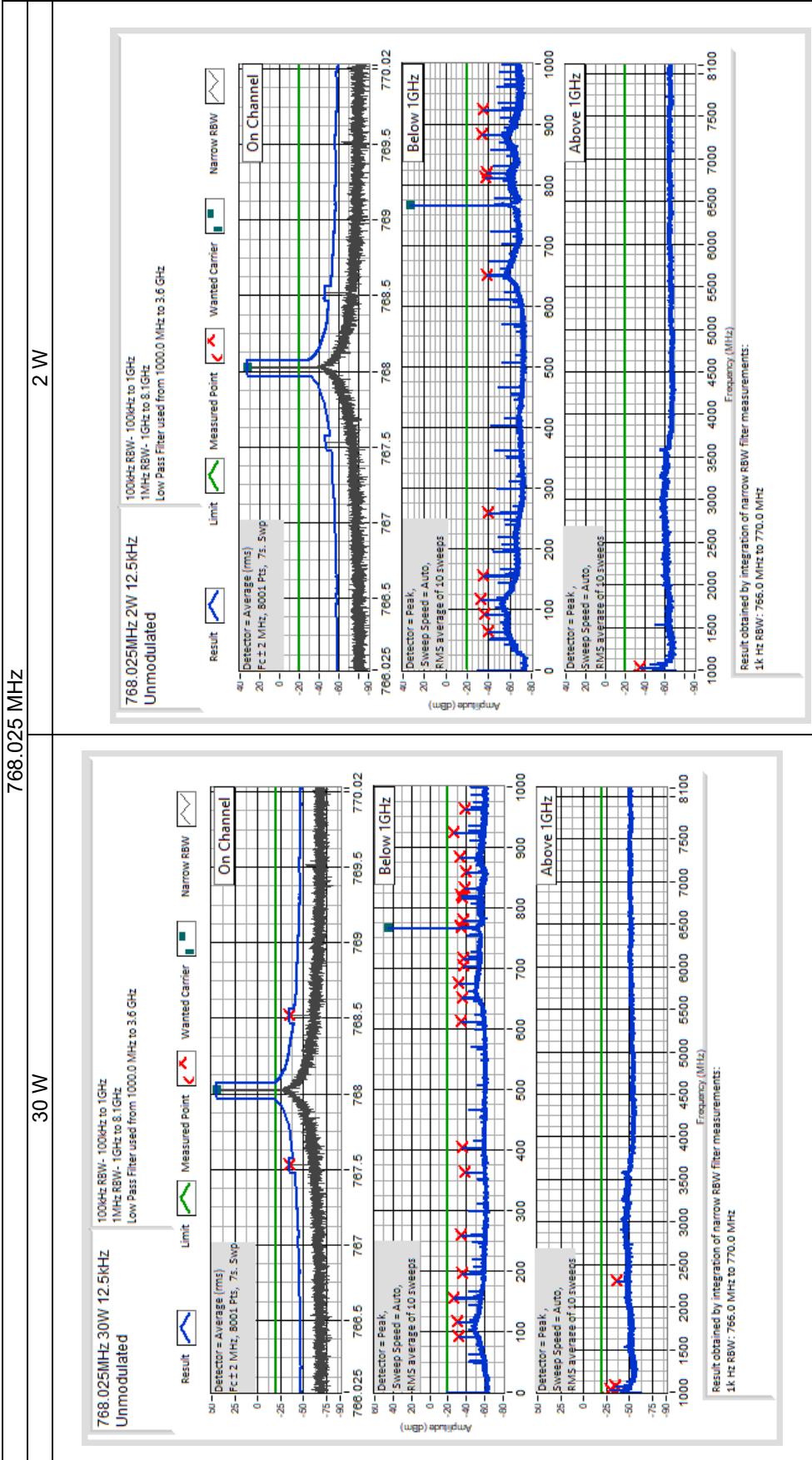
12.5 kHz Channel Spacing

768.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
63.966	-39.1	-72.1
92.018	-36	-69.0
115.957	-33.1	-66.1
155.978	-35.2	-68.2
259.959	-39.8	-72.8
652.039	-37.9	-70.9
811.41	-37.3	-70.3
820.029	-38.8	-71.8
883.988	-34.3	-67.3
924.025	-35.3	-68.3
1027.933	-35.5	-68.5

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

769.075 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
93.081	-31.4	-76.2
114.898	-29.9	-74.7
156.004	-25.8	-70.6
197.111	-36	-80.8
260.034	-34.2	-79.0
363.971	-39.1	-83.9
405.077	-35.2	-80.0
613.043	-34.6	-79.4
654.15	-34.6	-79.4
675.967	-31.3	-76.1
706.118	-37.4	-82.2
717.073	-36.9	-81.7
734.396	-39.3	-84.1
768.578	-34.4	-79.2
769.572	-34.4	-79.2
780.018	-38.1	-82.9
802.713	-37.1	-81.9
821.075	-34.8	-79.6
832.002	-38.6	-83.4
862.159	-39.5	-84.3
884.014	-32.6	-77.4
925.07	-26.7	-71.5
966.155	-38.7	-83.5
1028.885	-29	-73.8
1069.833	-34.4	-79.2
2306.825	-35.8	-80.6

12.5 kHz Channel Spacing

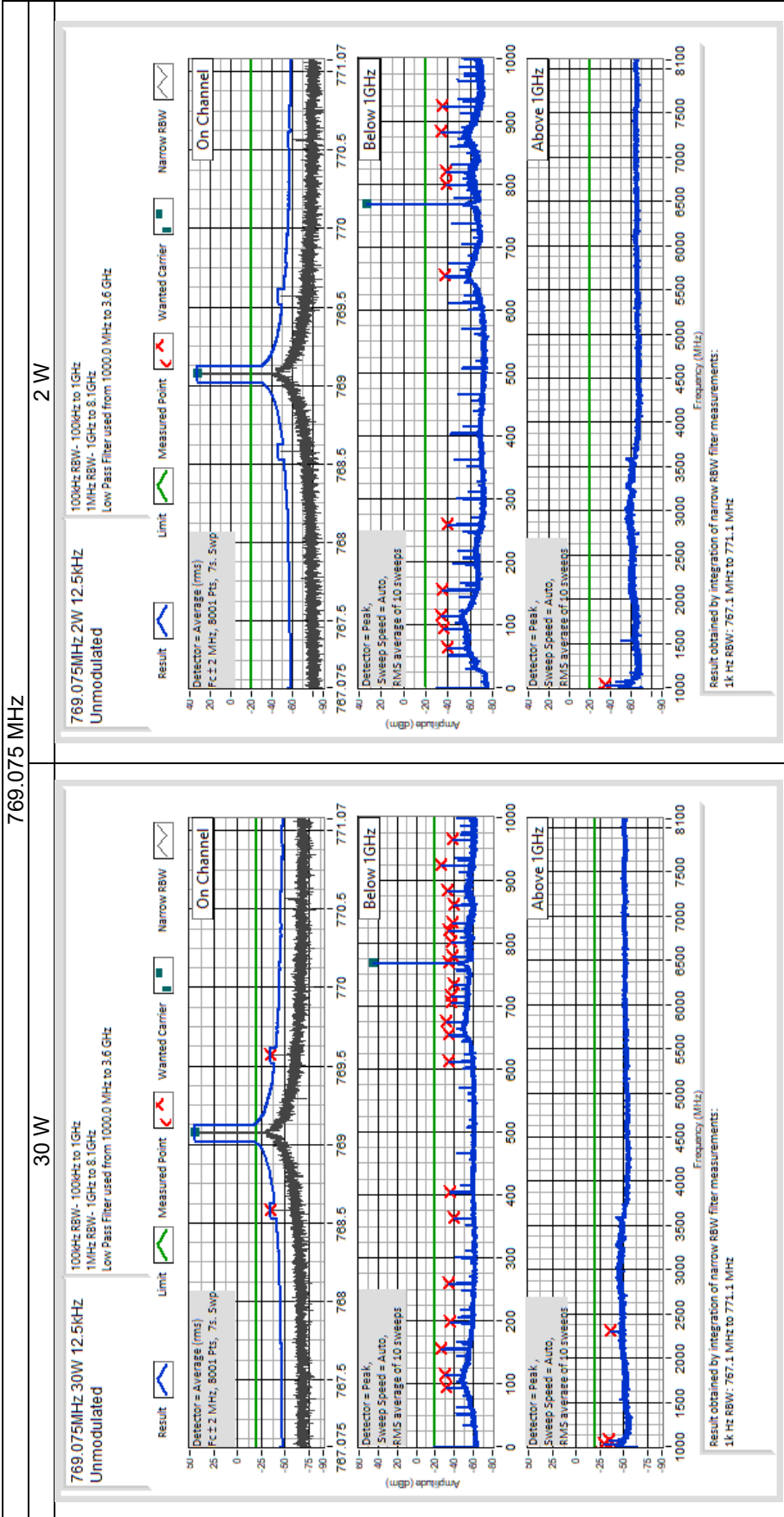
769.075 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
62.93	-39.4	-72.4
93.081	-35.9	-68.9
114.898	-33.3	-66.3
156.004	-35.2	-68.2
260.034	-39.8	-72.8
654.15	-37.4	-70.4
799.89	-38.1	-71.1
821.075	-38.9	-71.9
884.014	-34.2	-67.2
925.07	-35.3	-68.3
1028.885	-35.2	-68.2

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

774.900 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
98.882	-30	-74.8
109.071	-29.6	-74.4
155.962	-27.1	-71.9
202.947	-37.1	-81.9
260.027	-35.5	-80.3
410.889	-35.7	-80.5
618.925	-36.6	-81.4
665.816	-32.4	-77.2
676.005	-29.8	-74.6
717.801	-38.8	-83.6
722.896	-37.3	-82.1
740.822	-39.8	-84.6
774.404	-33.4	-78.2
775.396	-33.3	-78.1
780.005	-36.6	-81.4
809.884	-35.8	-80.6
826.908	-35.2	-80.0
832.001	-37.4	-82.2
883.997	-35	-79.8
930.899	-28	-72.8
977.802	-39.2	-84.0
1034.599	-30.7	-75.5
1081.577	-32.2	-77.0
2324.283	-35	-79.8

12.5 kHz Channel Spacing

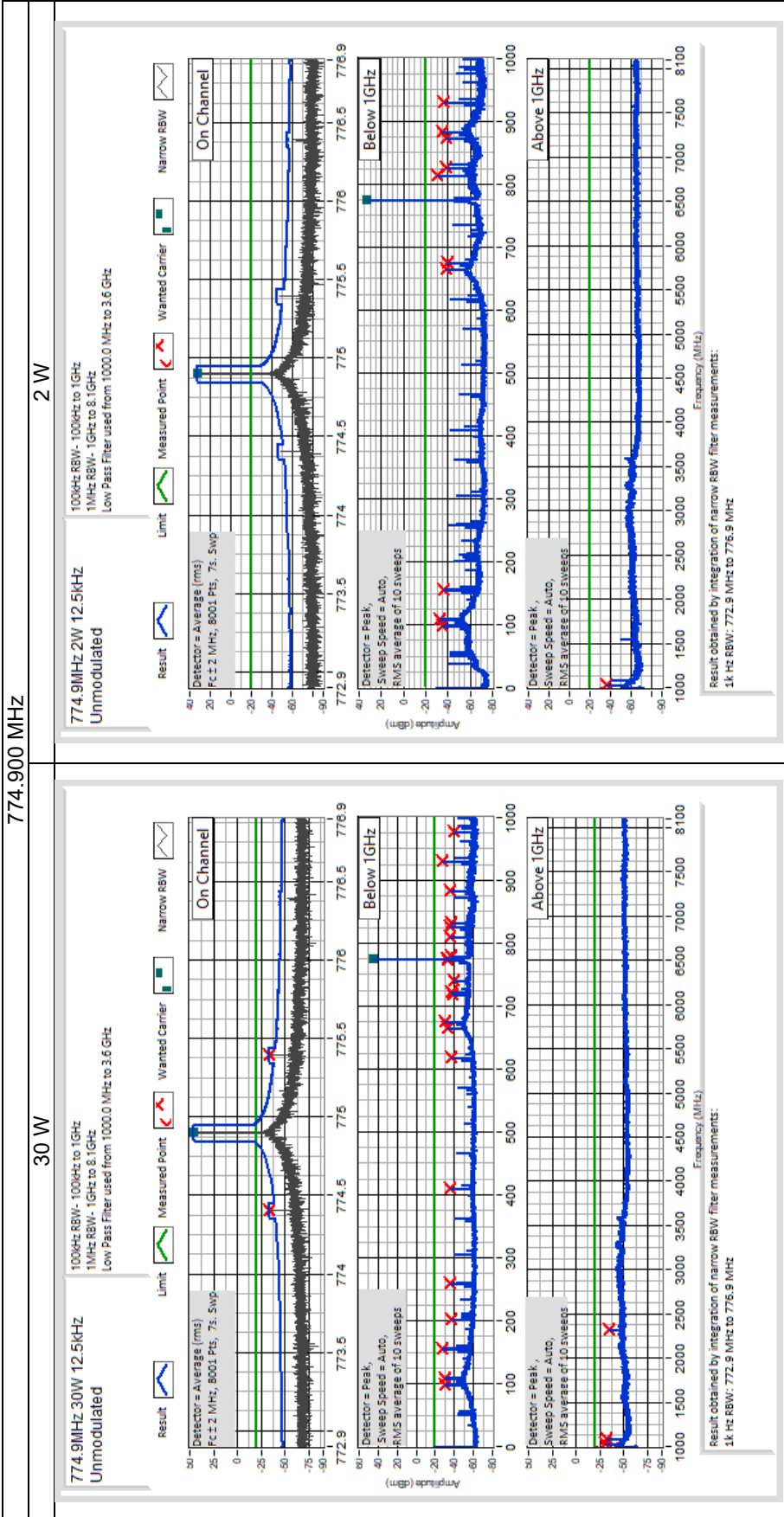
774.900 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
98.882	-35	-68.0
109.071	-32.9	-65.9
155.962	-36.3	-69.3
665.816	-38.1	-71.1
676.005	-39.5	-72.5
813.697	-30.9	-63.9
826.908	-39	-72.0
873.81	-38.8	-71.8
883.997	-34.7	-67.7
930.899	-36.6	-69.6
1034.599	-36.8	-69.8

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

775.975 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
99.964	-29.5	-74.3
107.995	-29.8	-74.6
155.99	-27.3	-72.1
203.985	-36.9	-81.7
260.011	-35.5	-80.3
308.006	-40	-84.8
364.032	-39.8	-84.6
411.933	-35.5	-80.3
619.975	-37	-81.8
667.97	-32.7	-77.5
676.001	-29.7	-74.5
719.933	-38.7	-83.5
723.996	-37.2	-82.0
775.478	-33.5	-78.3
776.472	-33.5	-78.3
780.008	-36.9	-81.7
824.923	-39.9	-84.7
827.986	-35.1	-79.9
831.997	-37.2	-82.0
884.014	-36.1	-80.9
931.964	-28.3	-73.1
979.969	-39.2	-84.0
1035.869	-31.1	-75.9
1083.799	-32.7	-77.5
2327.774	-34	-78.8

12.5 kHz Channel Spacing

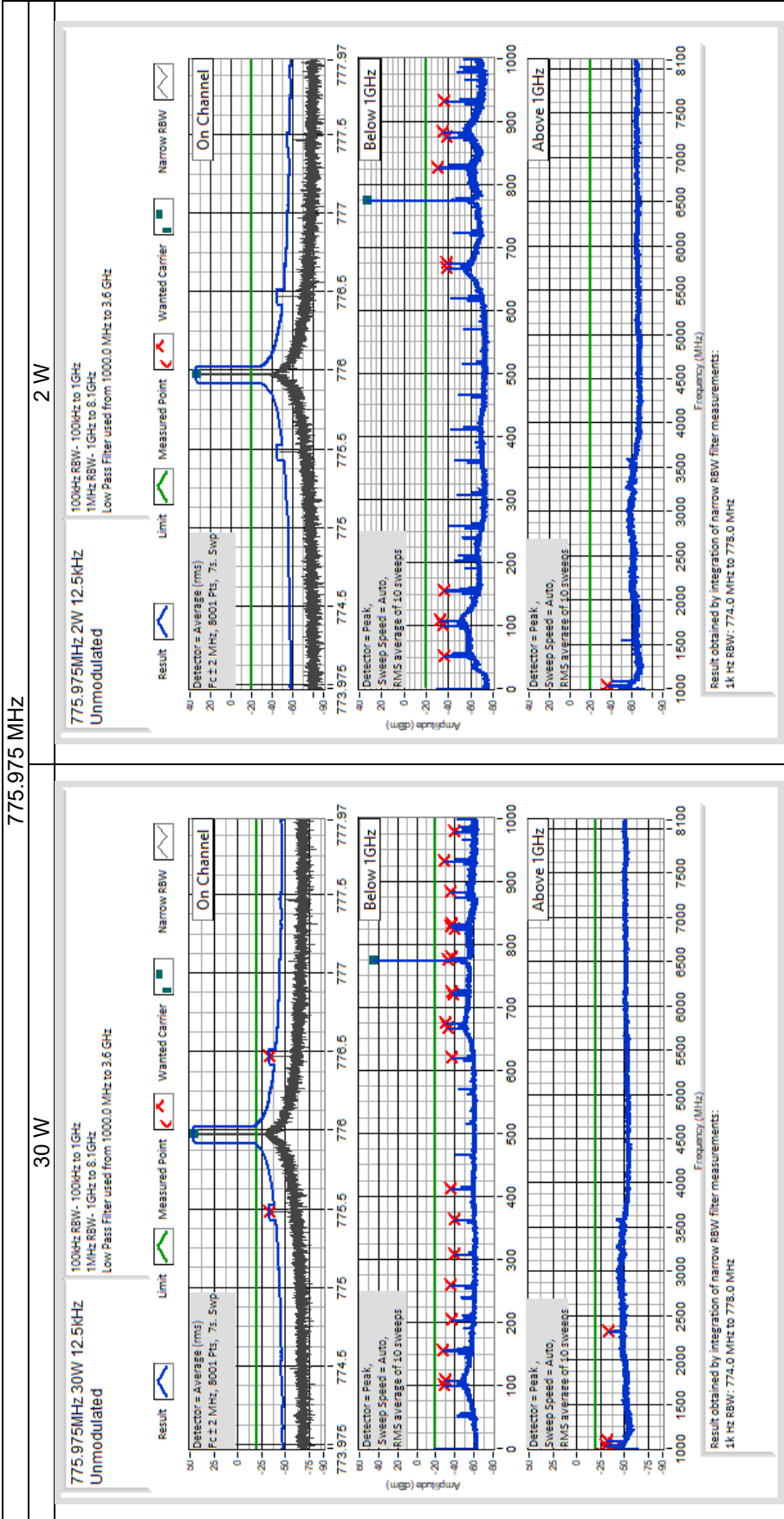
775.975 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
51.402	-36.2	-69.2
99.964	-34.6	-67.6
107.995	-33	-66.0
155.99	-36.3	-69.3
667.97	-38	-71.0
676.001	-38.9	-71.9
827.471	-30.7	-63.7
875.936	-38.2	-71.2
884.014	-35.1	-68.1
931.964	-36.6	-69.6
1035.869	-36.8	-69.8

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

798.025 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
85.999	-36.9	-81.7
122.049	-32	-76.8
155.962	-31.1	-75.9
226.022	-37.3	-82.1
260.032	-37.8	-82.6
434.064	-39.2	-84.0
642.009	-38.9	-83.7
676.019	-33.6	-78.4
712.07	-37.3	-82.1
797.528	-31.5	-76.3
798.522	-31.1	-75.9
832.007	-37.7	-82.5
850.025	-35.9	-80.7
954.028	-34.9	-79.7
1023.807	-35.5	-80.3
1057.771	-33.3	-78.1
2393.798	-31.7	-76.5

12.5 kHz Channel Spacing

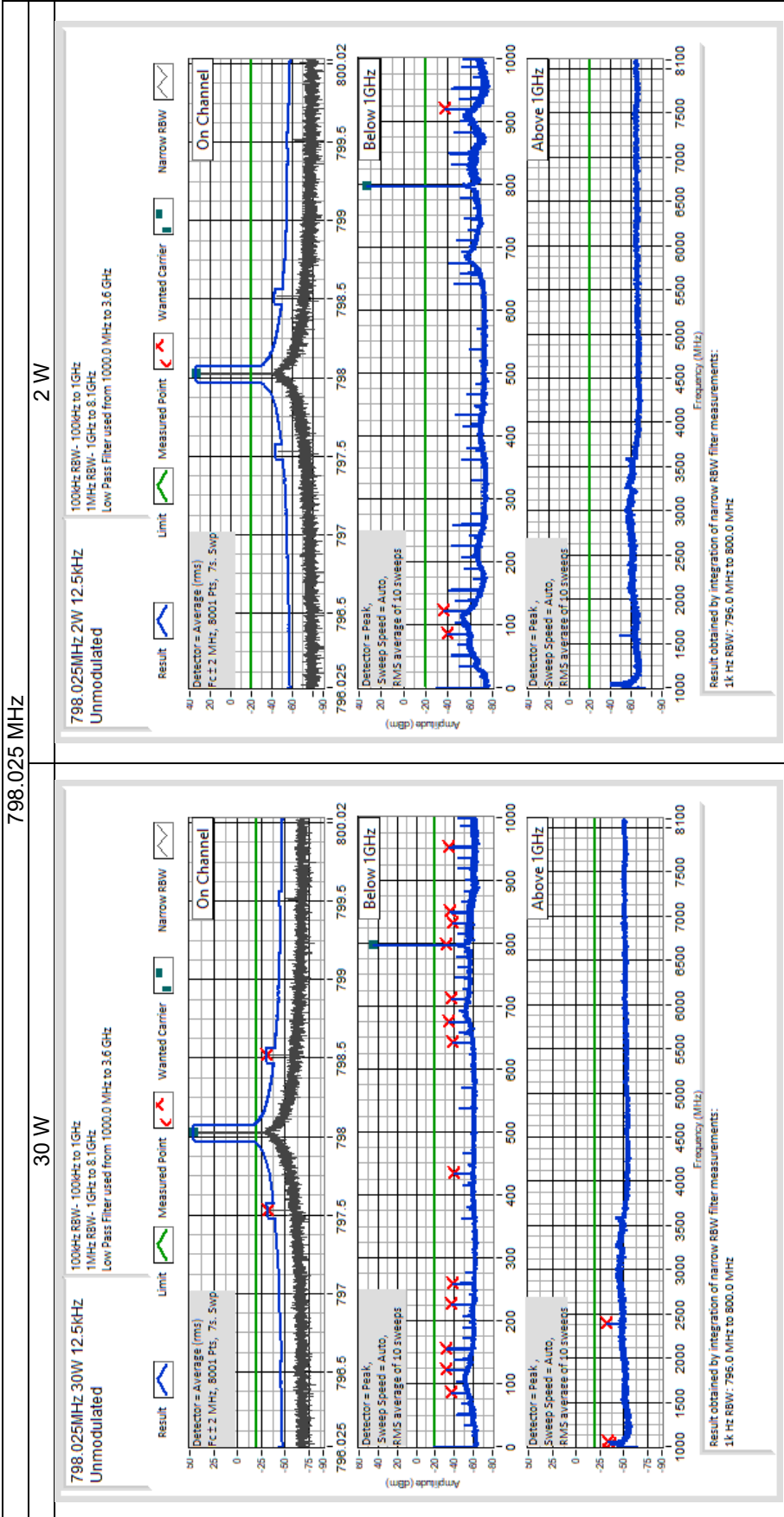
798.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
85.999	-39.9	-72.9
122.049	-35.8	-68.8
920.044	-37.8	-70.8

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

799.075 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
84.945	-36.9	-81.7
123.086	-31.7	-76.5
155.973	-30.9	-75.7
227.098	-37.1	-81.9
259.985	-37.6	-82.4
435.123	-39.3	-84.1
643.051	-38.8	-83.6
676.035	-33.9	-78.7
714.176	-38.2	-83.0
798.578	-31.5	-76.3
799.572	-30.9	-75.7
831.991	-37.6	-82.4
851.079	-35.8	-80.6
955.071	-34.9	-79.7
1026.029	-35.7	-80.5
1058.723	-33.3	-78.1
2396.972	-30.4	-75.2

12.5 kHz Channel Spacing

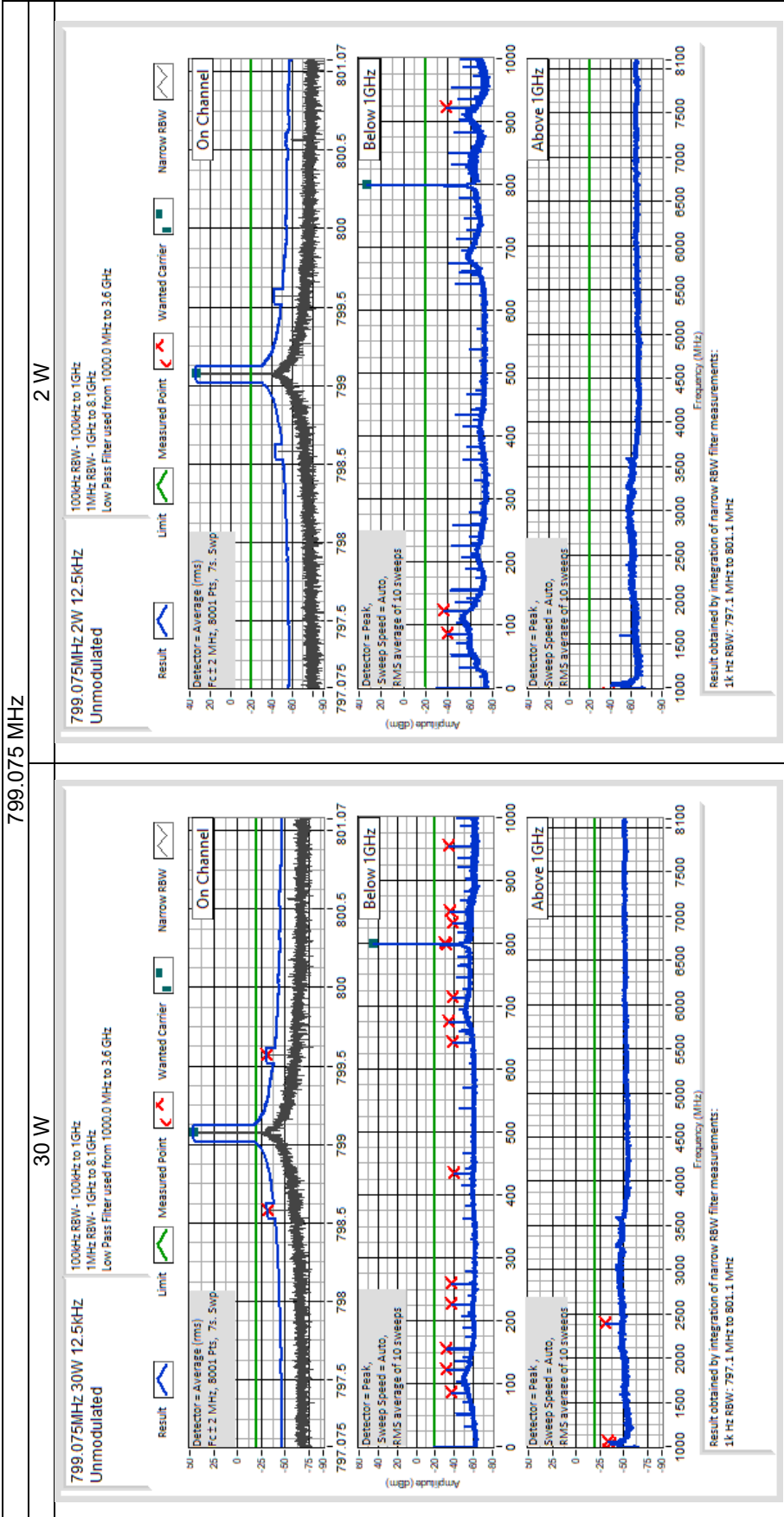
799.075 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
84.945	-39.7	-72.7
123.086	-36.5	-69.5
922.14	-38.7	-71.7

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

804.900 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
76.94	-38.3	-83.1
79.096	-38.5	-83.3
128.885	-34	-78.8
156.034	-32	-76.8
232.874	-37.8	-82.6
260.023	-37.6	-82.4
648.926	-38.3	-83.1
675.977	-35.6	-80.4
725.766	-39.3	-84.1
804.404	-34.9	-79.7
804.764	-26.9	-71.7
804.796	-24.6	-69.4
805.004	-24.2	-69.0
805.396	-34.3	-79.1
831.983	-38.7	-83.5
856.902	-36.8	-81.6
960.89	-37.5	-82.3
1037.773	-37.8	-82.6
1064.754	-34.6	-79.4
2414.43	-31.2	-76.0

12.5 kHz Channel Spacing

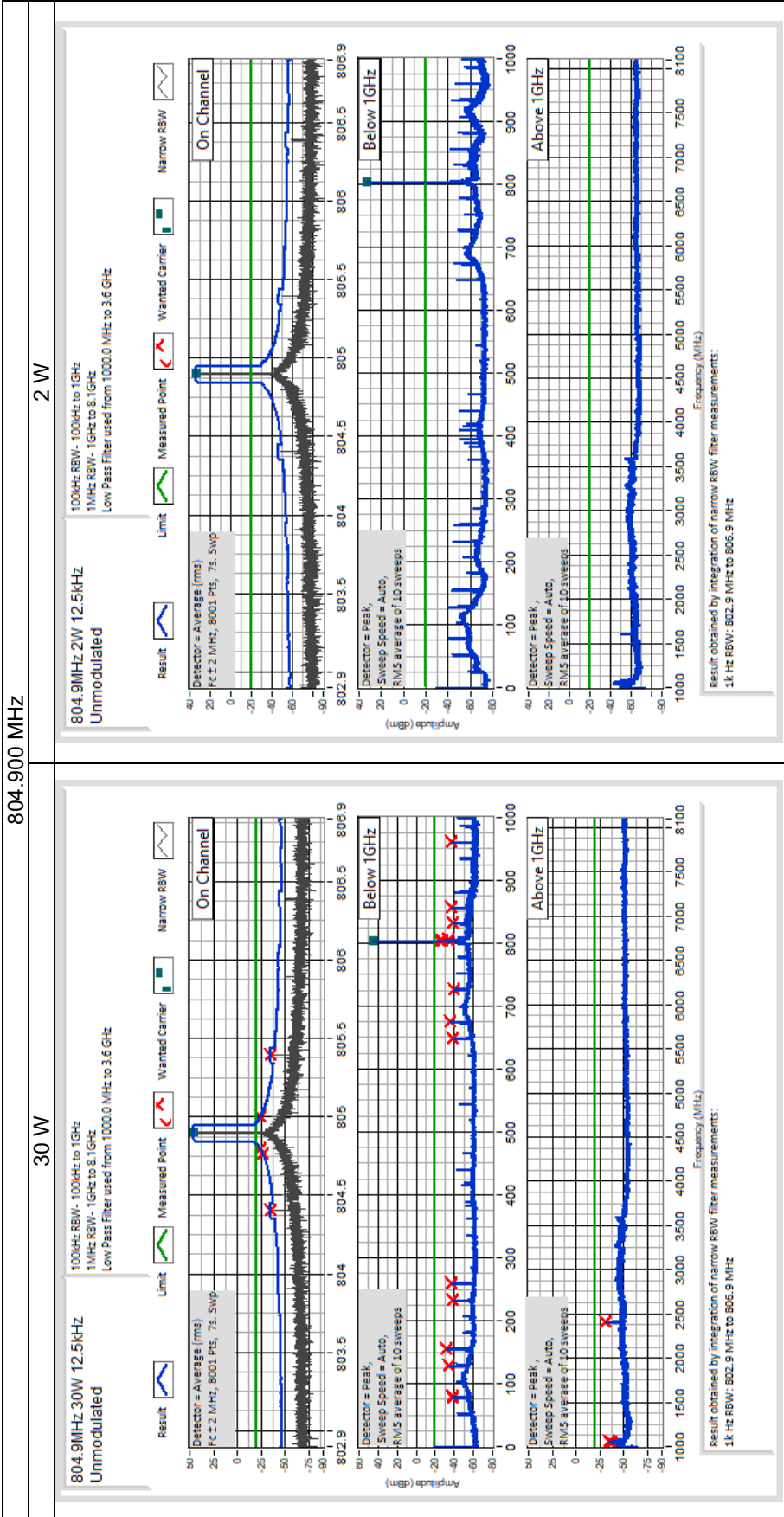
804.900 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

805.975 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
78.024	-35.2	-79.97
129.941	-32.7	-77.47
156.046	-31.9	-76.67
233.971	-36.9	-81.67
259.978	-37.3	-82.07
649.991	-37.6	-81.37
675.999	-34.9	-79.67
728.014	-36.6	-81.37
805.478	-34.2	-78.97
805.874	-32.5	-77.27
806.472	-35.2	-79.97
832.004	-37.7	-82.47
857.98	-37	-81.77
883.955	-39.2	-83.97
961.975	-38.1	-82.87
1039.995	-37.1	-81.87
1065.706	-34.3	-79.07
2417.605	-29.4	-74.17

12.5 kHz Channel Spacing

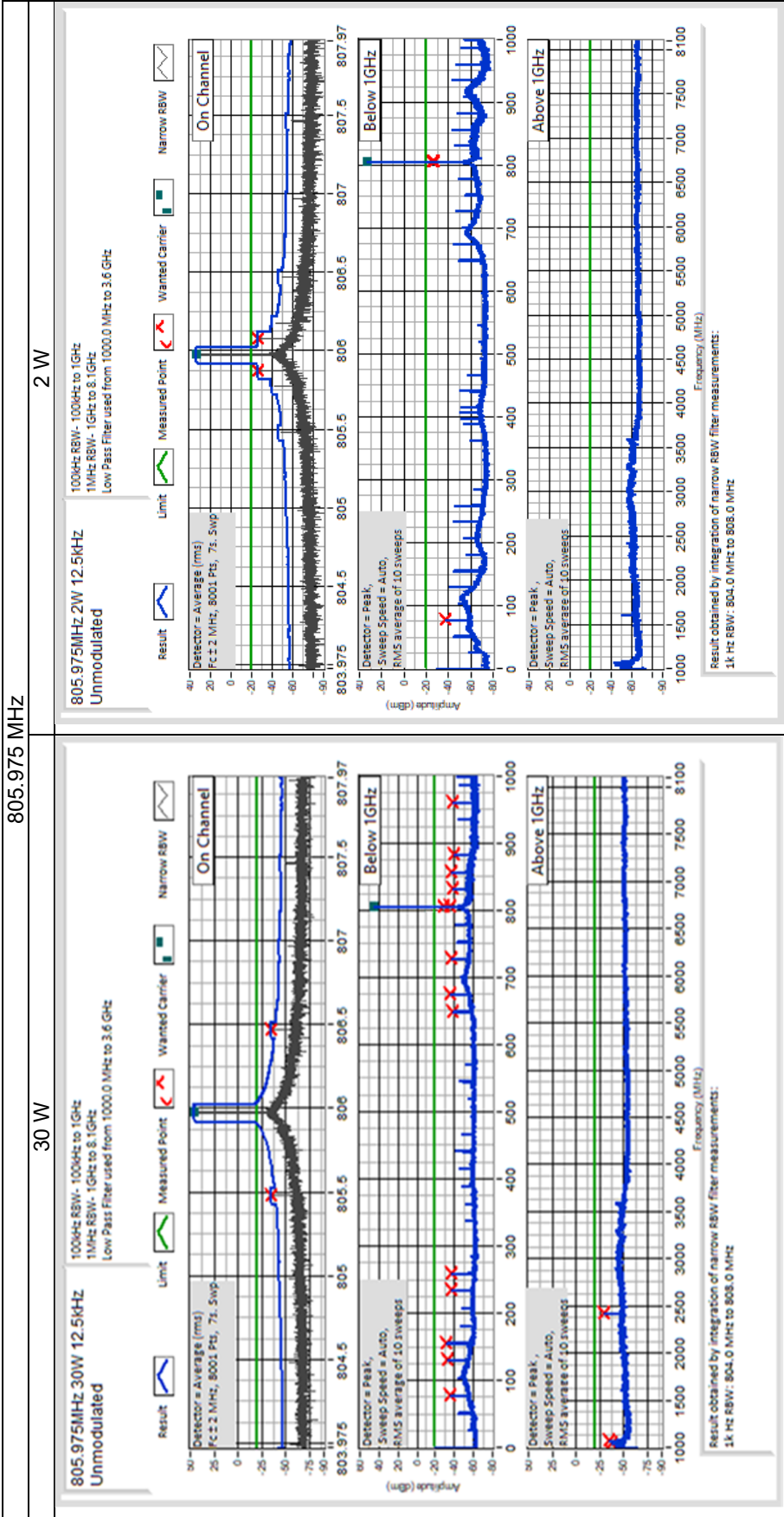
805.975 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
78.024	-37.1	-70.1
805.874	-26.3	-59.3
806.076	-26.5	-59.5

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

806.025 MHz @ 35 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
78.029	-36.2	-81.6
130.047	-32.5	-77.9
155.958	-31.8	-77.2
233.985	-36.8	-82.2
259.994	-37.8	-83.2
650.032	-37.1	-82.5
676.041	-33.8	-79.2
727.961	-38.4	-83.8
805.826	-25.2	-70.6
806.15	-22.5	-67.9
806.223	-25.5	-70.9
832.001	-37.4	-82.8
858.017	-37.5	-82.9
962.032	-38.2	-83.6
1039.995	-37.1	-82.5
1065.706	-34.7	-80.1
2417.922	-30.1	-75.5

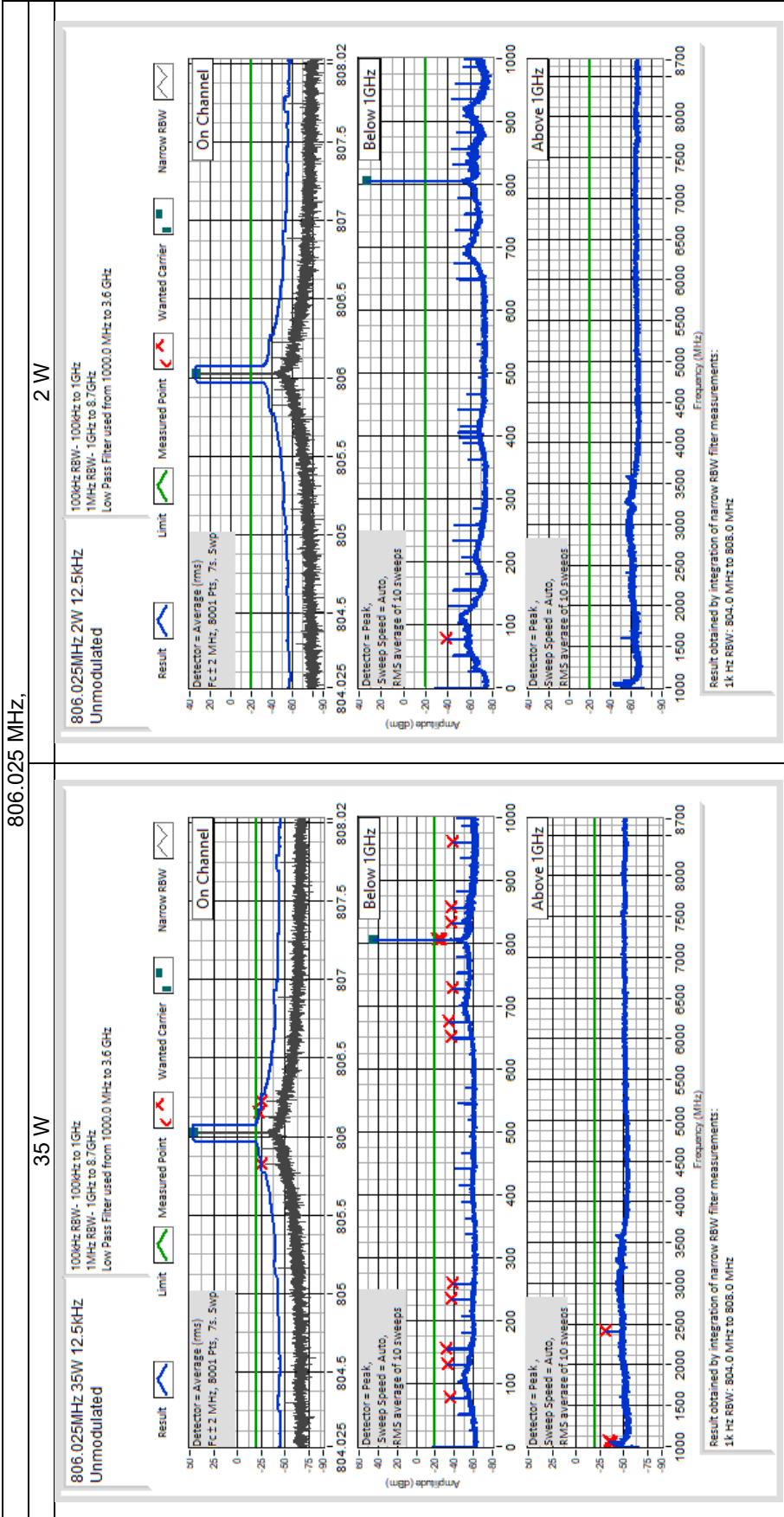
12.5 kHz Channel Spacing

806.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
78.029	-38.1	-71.1

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

815.025 MHz @ 35 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
87.04	-39.9	-85.3
139.045	-35.6	-81.0
156.016	-33.3	-78.7
243.055	-39.2	-84.6
260.026	-36.4	-81.8
658.995	-35.3	-80.7
675.966	-34.3	-79.7
815.148	-25.3	-70.7
815.288	-28.7	-74.1
832.014	-39.9	-85.3
867.019	-39.4	-84.8
1074.911	-35.3	-80.7
2444.903	-30	-75.4

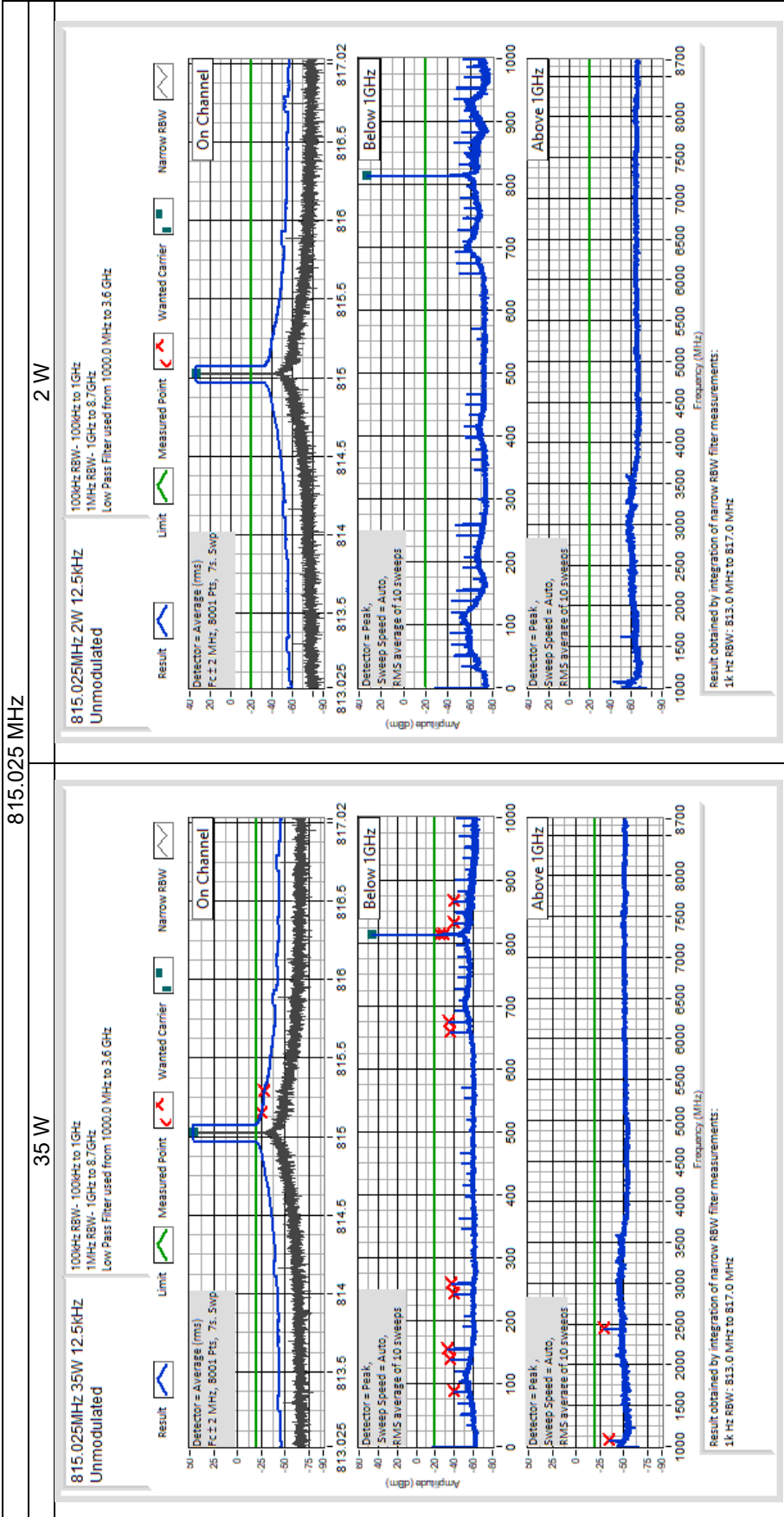
12.5 kHz Channel Spacing

815.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

823.975 MHz @ 35 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
96.024	-38.5	-83.9
147.999	-36.4	-81.8
156.026	-34.1	-79.5
259.977	-37.9	-83.3
667.955	-33.4	-78.8
675.982	-33.8	-79.2
727.958	-39.4	-84.8
823.851	-25.9	-71.3
823.872	-24.8	-70.2
824.076	-25.1	-70.5
824.093	-26.3	-71.7
831.988	-38.7	-84.1
867.936	-38.2	-83.6
1083.799	-35.1	-80.5
2471.566	-32.6	-78.0

12.5 kHz Channel Spacing

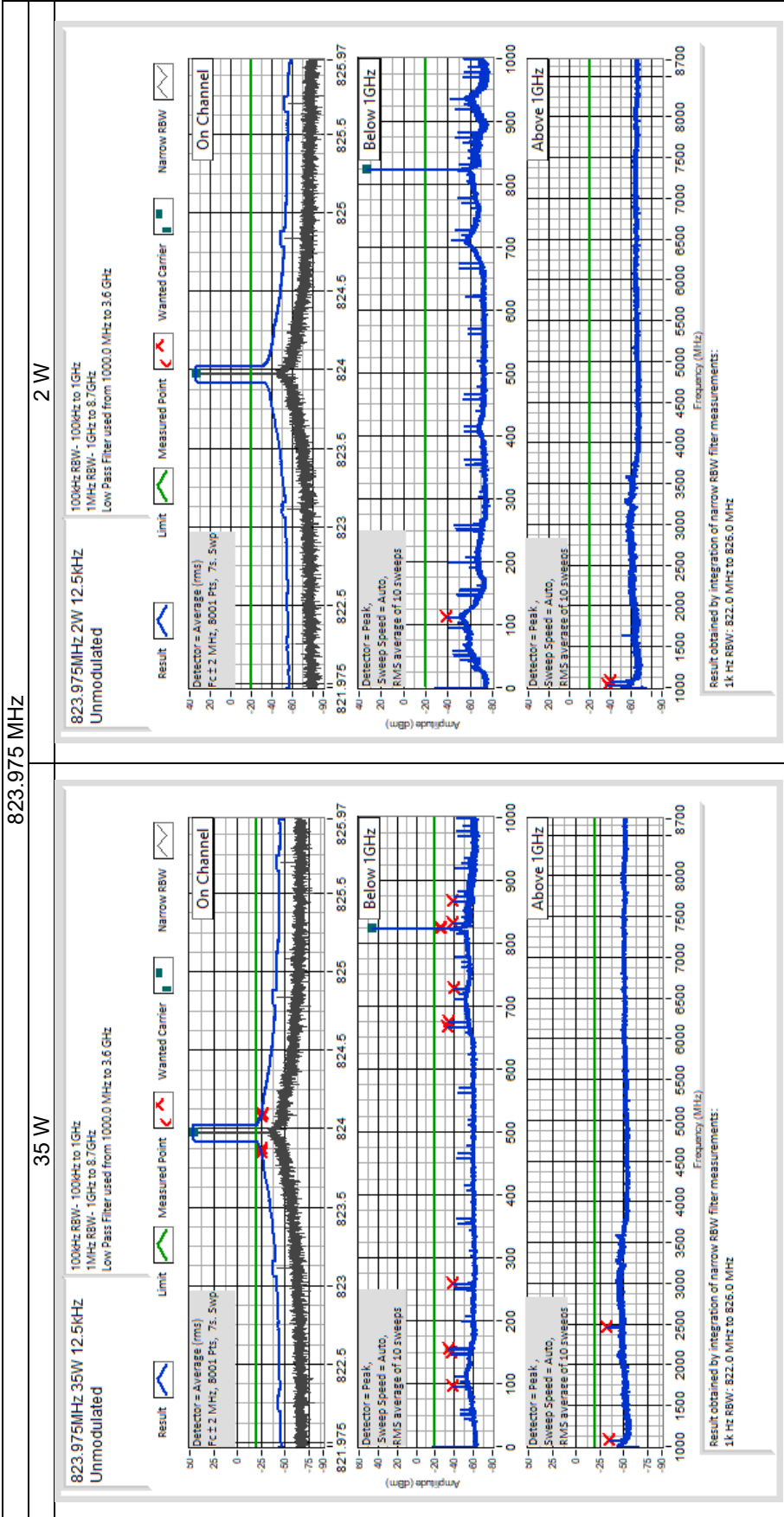
823.975 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
111.978	-38.9	-71.9
1025.394	-37.8	-70.8
1083.799	-39.9	-72.9

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

851.025 MHz @ 35 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
112.862	-39.2	-84.6
123.018	-35.3	-80.7
155.976	-36.1	-81.5
260.032	-36.3	-81.7
363.984	-39.1	-84.5
468.04	-39.2	-84.6
487.006	-37.7	-83.1
571.992	-39.3	-84.7
591.062	-34.8	-80.2
695.014	-34.3	-79.7
727.972	-31.7	-77.1
738.129	-38.4	-83.8
780	-38.9	-84.3
818.036	-39.9	-85.3
850.162	-35.6	-81.0
850.896	-26	-71.4
851.132	-25	-70.4
851.887	-35.6	-81.0
883.995	-36.7	-82.1
903.016	-36.3	-81.7
922.054	-31.5	-76.9
974.054	-38.8	-84.2
1006.983	-34.1	-79.5
2552.826	-39.8	-85.2

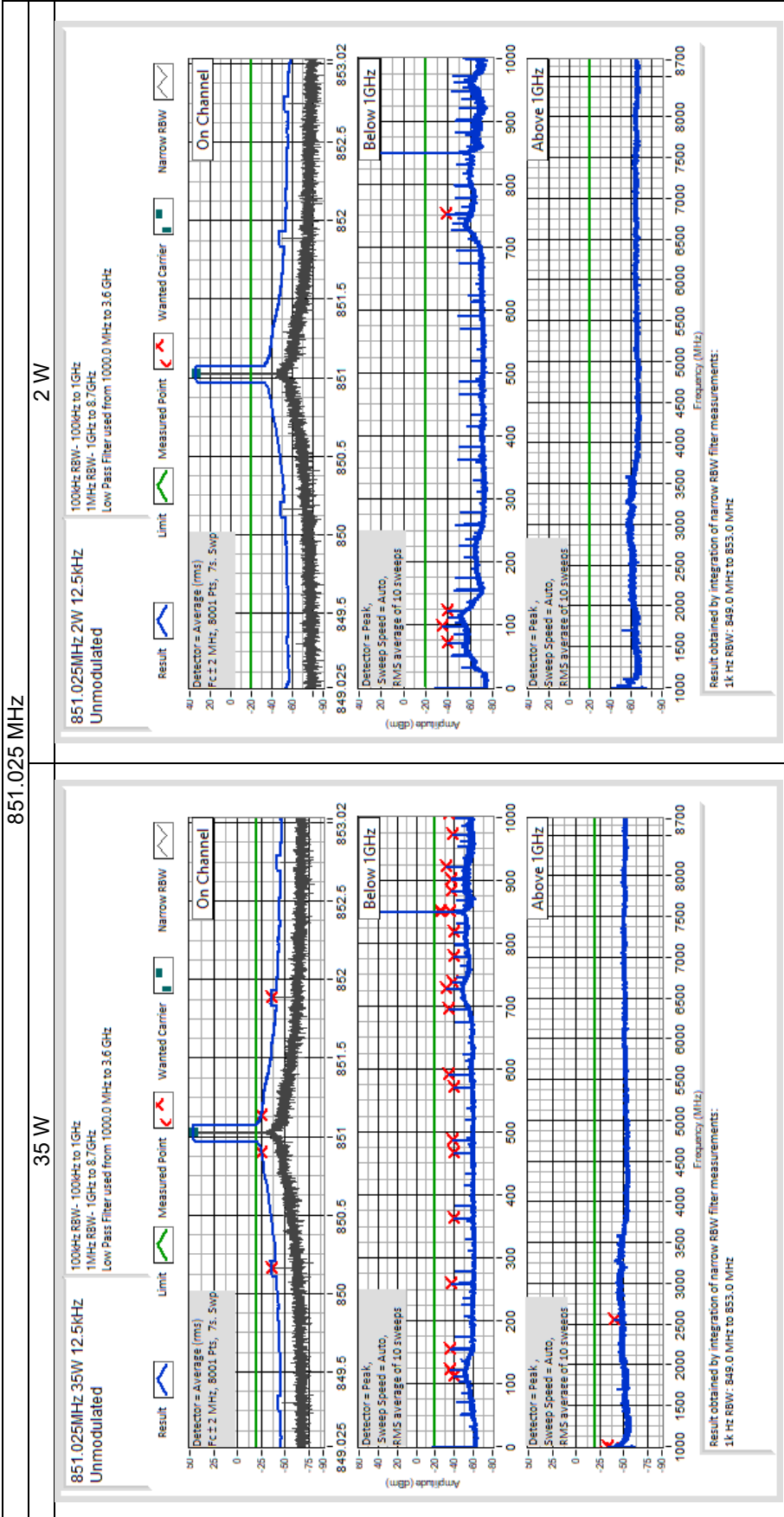
12.5 kHz Channel Spacing

851.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
70.991	-39.2	-72.2
97.108	-35.1	-68.1
123.018	-39.1	-72.1
753.882	-38.5	-71.5

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

860.025 MHz @ 35 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
80.017	-39.9	-85.3
132.072	-38.5	-83.9
155.953	-35.1	-80.5
184.023	-38.8	-84.2
259.96	-36.4	-81.8
496.044	-38.8	-84.2
571.98	-39	-84.4
600.05	-34.5	-79.9
704.057	-34.7	-80.1
728.043	-33.7	-79.1
779.994	-37.8	-83.2
808.064	-40	-85.4
859.162	-35.2	-80.6
859.878	-26.4	-71.8
860.887	-35.1	-80.5
883.99	-38.4	-83.8
912.02	-35.9	-81.3
927.888	-37	-82.4
940.05	-30.9	-76.3
992.049	-37.8	-83.2
1000.635	-39.2	-84.6
1015.871	-33.4	-78.8

12.5 kHz Channel Spacing

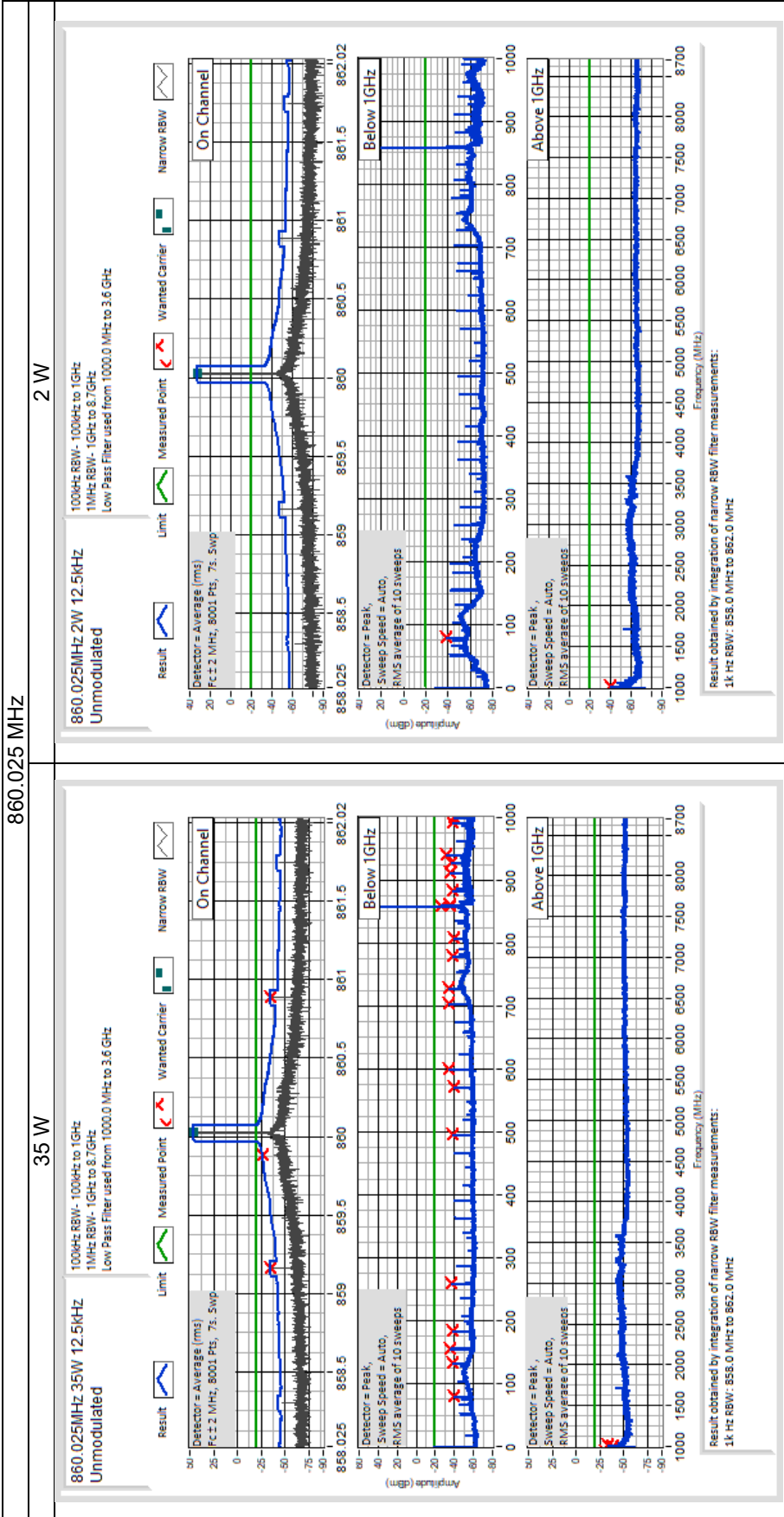
860.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
80.017	-38.8	-71.8
1015.871	-39.6	-72.6

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

868.975 MHz @ 35 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
88.999	-38	-83.4
155.991	-34.2	-79.6
192.927	-38.3	-83.7
260.025	-36.4	-81.8
363.953	-38.7	-84.1
400.994	-39.7	-85.1
467.986	-39.8	-85.2
504.922	-38.5	-83.9
572.019	-38.4	-83.8
608.955	-34.1	-79.5
712.989	-34.2	-79.6
728.017	-37.3	-82.7
779.981	-36.7	-82.1
817.022	-39.7	-85.1
868.113	-34.4	-79.8
869.837	-34.5	-79.9
905.945	-37.8	-83.2
920.972	-36.5	-81.9
957.958	-30.7	-76.1
1009.523	-38.6	-84.0
1024.759	-34.4	-79.8
1738.005	-39.2	-84.6

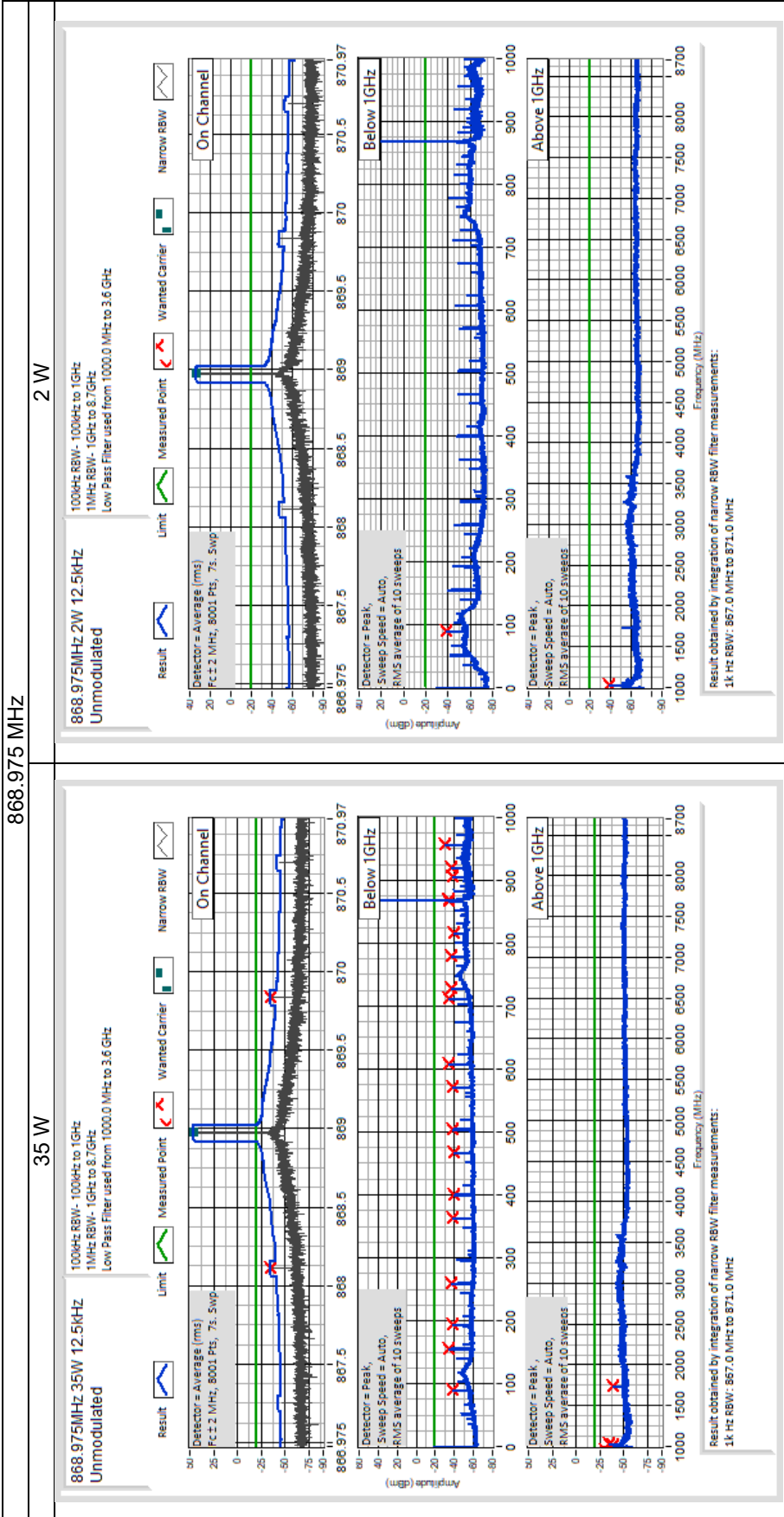
12.5 kHz Channel Spacing

868.975 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
88.999	-38.5	-71.5
1024.759	-39	-72.0

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

896.025 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
112.073	-35.3	-80.1
116.001	-27.1	-71.9
156.054	-31.1	-75.9
220.007	-34.2	-79.0
259.95	-35.5	-80.3
363.956	-37.6	-82.4
428.018	-38.7	-83.5
532.024	-35.2	-80.0
571.968	-36.7	-81.5
636.03	-33	-77.8
675.973	-36.8	-81.6
740.035	-31.3	-76.1
779.979	-22.8	-67.6
832.036	-39.8	-84.6
895.162	-34.2	-79.0
896.288	-28.8	-73.6
896.887	-33.9	-78.7
951.932	-39.6	-84.4
960.049	-37.5	-82.3
1011.745	-25.1	-69.9
1051.74	-37.2	-82.0
1791.967	-36.3	-81.1

12.5 kHz Channel Spacing

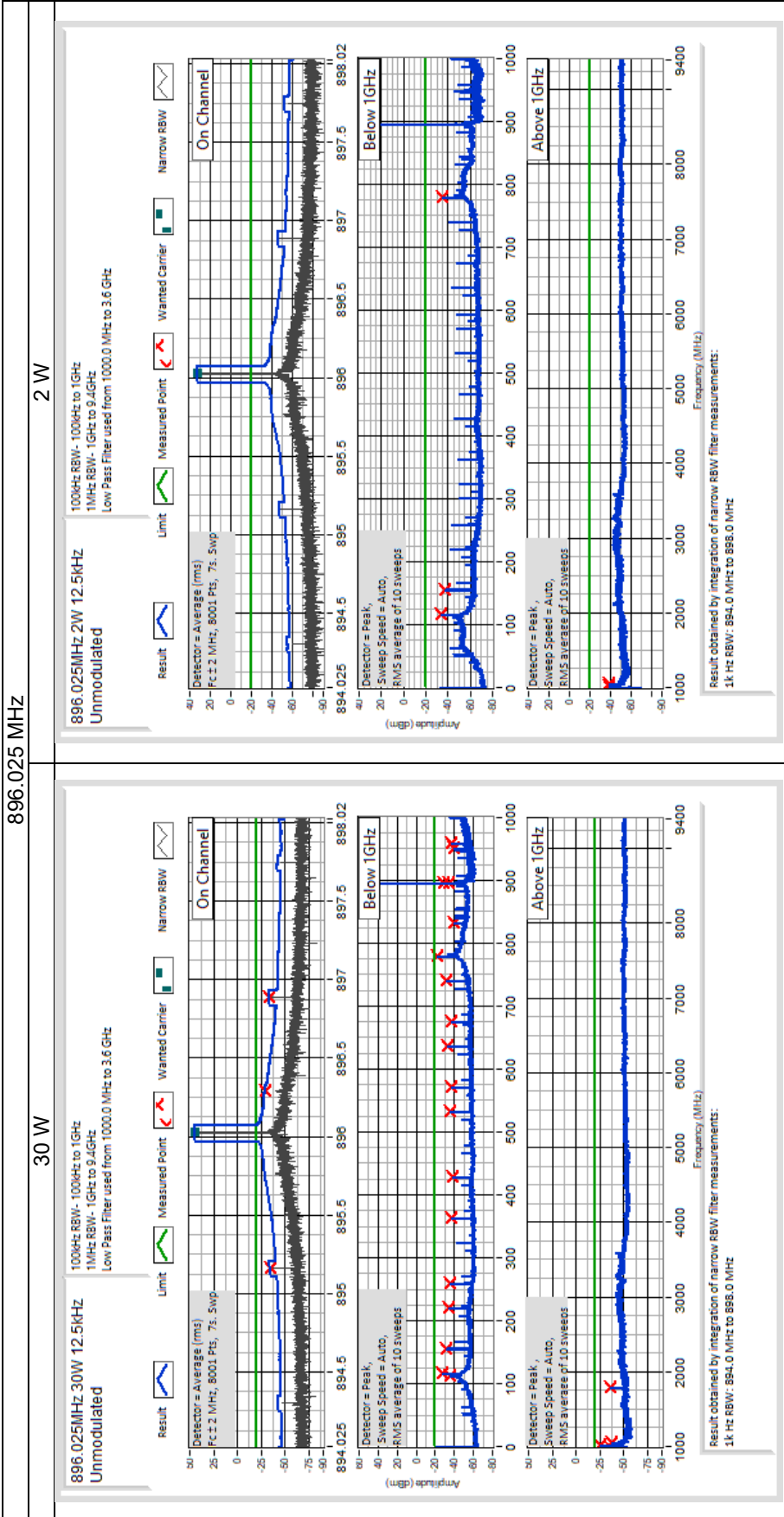
896.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
116.001	-33.3	-66.3
156.054	-36.9	-69.9
779.979	-35.4	-68.4
1011.745	-39.2	-72.2
1051.74	-38.6	-71.6

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

900.975 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
120.923	-33.3	-78.1
156.04	-31.4	-76.2
224.956	-35.4	-80.2
259.963	-35.8	-80.6
363.996	-37.7	-82.5
433.022	-38.4	-83.2
536.945	-35	-79.8
571.952	-37	-81.8
640.978	-33.1	-77.9
675.985	-37.3	-82.1
745.011	-30.9	-75.7
780.018	-27.7	-72.5
788.029	-38.6	-83.4
797.027	-38.9	-83.7
813.927	-39.2	-84.0
832.034	-38	-82.8
900.113	-33.7	-78.5
901.116	-27	-71.8
901.837	-33.6	-78.4
969.948	-37	-81.8
1021.585	-28.8	-73.6
1801.807	-36.6	-81.4

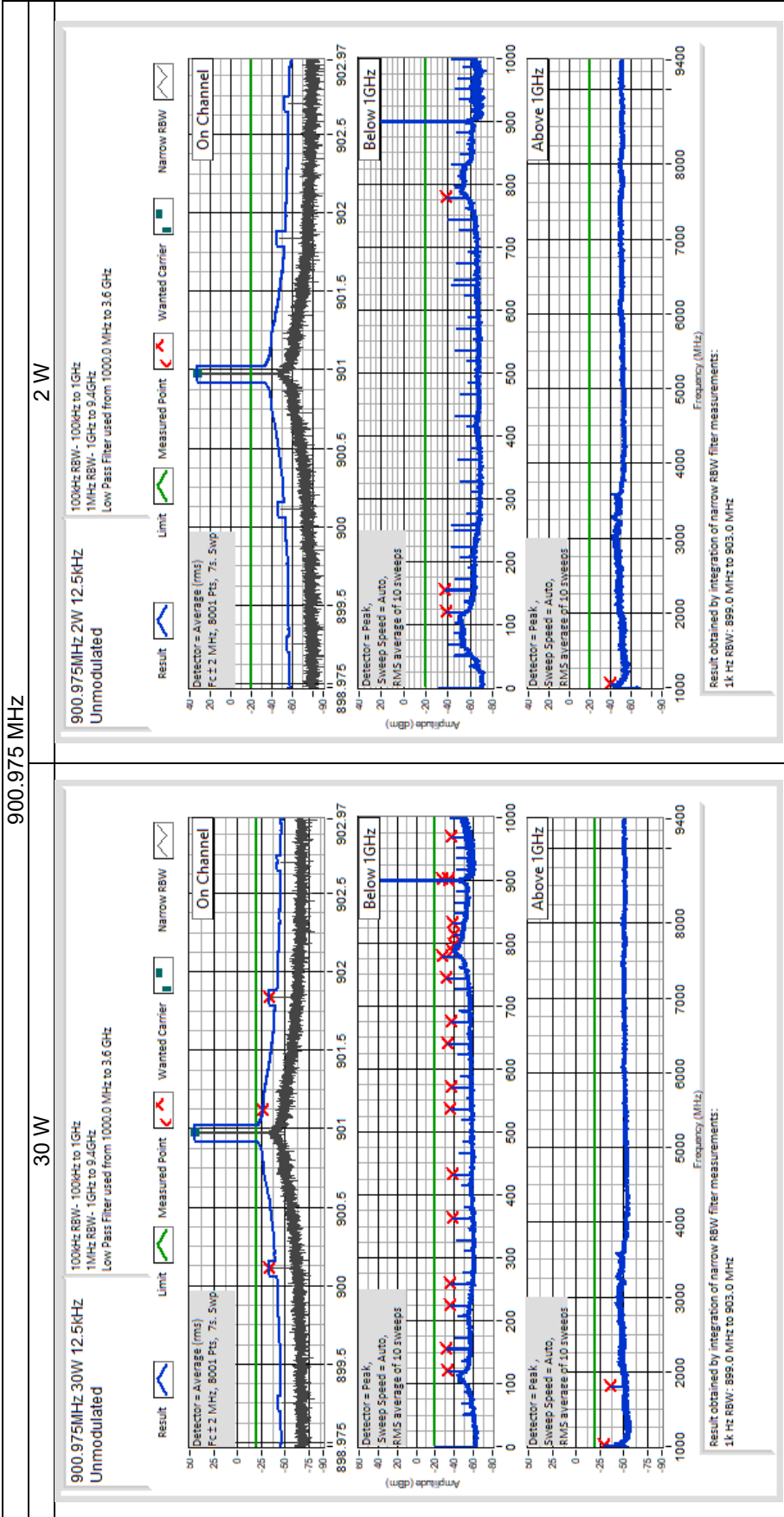
12.5 kHz Channel Spacing

900.975 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
120.923	-38.1	-71.1
156.04	-36.8	-69.8
780.018	-39	-72.0
1056.818	-39.7	-72.7

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

902.025 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
122.053	-34	-78.8
156.002	-31.5	-76.3
225.988	-35.8	-80.6
260.047	-36.1	-80.9
363.981	-37.7	-82.5
434.077	-38.5	-83.3
538.011	-35.2	-80.0
571.961	-37	-81.8
642.056	-33	-77.8
676.005	-37	-81.8
745.991	-30.8	-75.6
780.05	-28.4	-73.2
786.422	-39	-83.8
789.169	-39.4	-84.2
798.068	-38	-82.8
832.017	-38.2	-83.0
850.035	-39.9	-84.7
901.162	-33.8	-78.6
901.764	-28.5	-73.3
901.848	-27.3	-72.1
902.129	-25.5	-70.3
902.887	-33.7	-78.5
972.043	-36.7	-81.5
1023.807	-29.8	-74.6
1803.711	-36.8	-81.6

12.5 kHz Channel Spacing

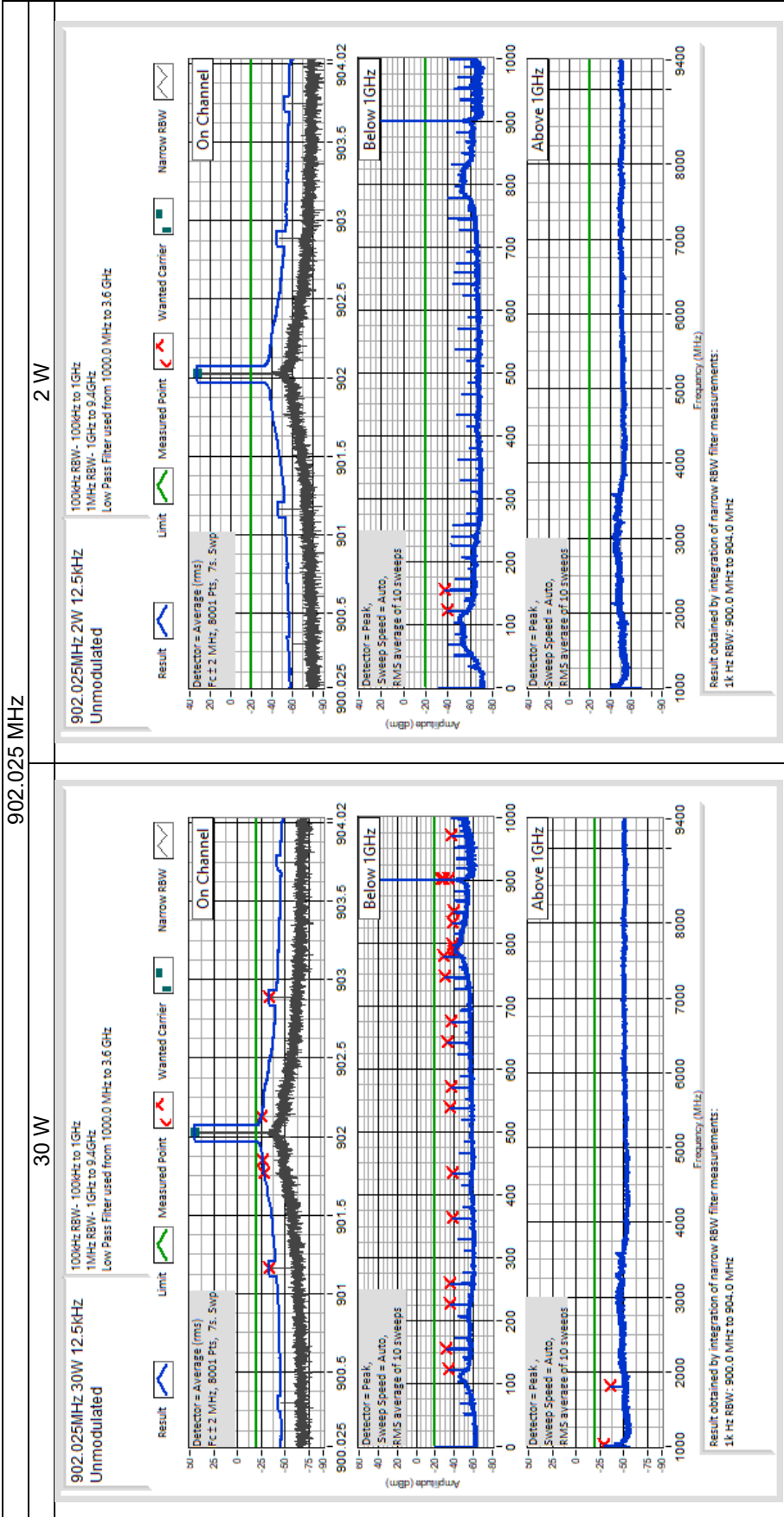
902.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
122.053	-39.3	-72.3
156.002	-37.2	-70.2

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

915.025 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
135.072	-38.5	-83.3
156.025	-31.2	-76.0
187.009	-38.4	-83.2
239.059	-38.2	-83.0
260.012	-36.1	-80.9
363.999	-38.1	-82.9
447.033	-38.9	-83.7
551.02	-35.2	-80.0
571.974	-36.3	-81.1
655.007	-33	-77.8
675.961	-37.3	-82.1
728.01	-39.9	-84.7
758.995	-29.1	-73.9
779.948	-31.1	-75.9
801.905	-39.8	-84.6
811.044	-36.2	-81.0
831.997	-34.9	-79.7
862.982	-39.2	-84.0
894.969	-36.3	-81.1
914.162	-33.4	-78.2
915.288	-28.2	-73.0
915.887	-33.2	-78.0
935.117	-36.4	-81.2
998.045	-33.9	-78.7
1018.093	-32	-76.8
1049.835	-33.8	-78.6
1829.74	-35	-79.8

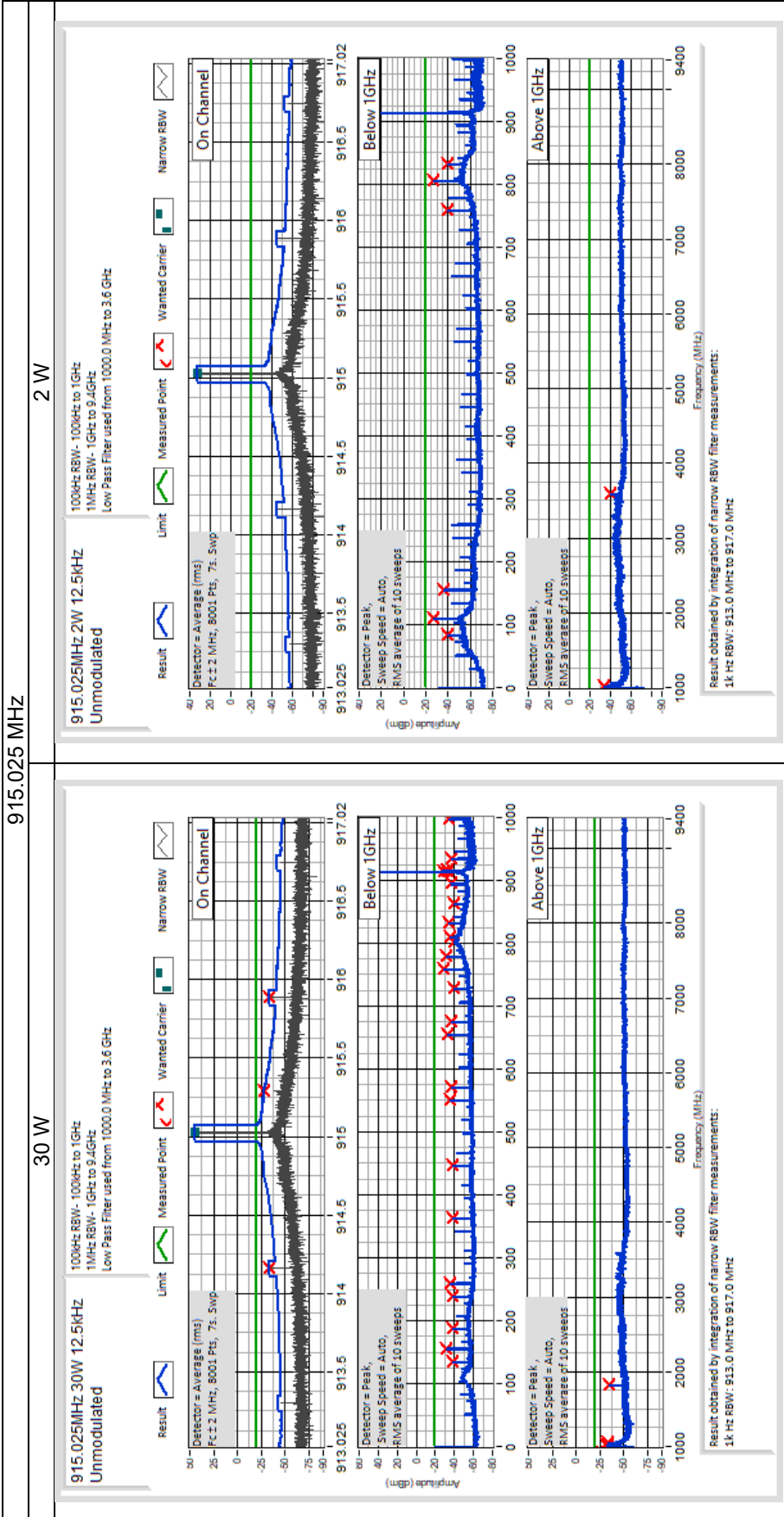
12.5 kHz Channel Spacing

915.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
83.022	-39.8	-72.8
109.66	-27.5	-60.5
156.025	-36.7	-69.7
758.995	-39.4	-72.4
805.36	-27.2	-60.2
831.997	-39.3	-72.3
1025.076	-33.5	-66.5
3600	-39.9	-72.9

TELTEST Laboratories
Tait International Ltd
Report Number 4402
Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

928.025 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
155.985	-32.1	-76.9
200.071	-37.4	-82.2
259.983	-35.7	-80.5
363.981	-37.9	-82.7
564.065	-33.6	-78.4
571.978	-36.1	-80.9
668.064	-32.7	-77.5
675.977	-36.5	-81.3
727.976	-39.7	-84.5
772.062	-26.6	-71.4
779.975	-31.7	-76.5
800.096	-37.2	-82.0
816.035	-33.5	-78.3
819.54	-39.5	-84.3
824.061	-36.9	-81.7
831.974	-30.6	-75.4
855.939	-33.9	-78.7
868.035	-39.5	-84.3
876.061	-37.3	-82.1
927.162	-32.5	-77.3
927.91	-25.4	-70.2
928.131	-25.6	-70.4
928.887	-32.4	-77.2
1023.807	-30.2	-75.0
1075.864	-32.9	-77.7
1083.799	-34.4	-79.2
1855.769	-33.1	-77.9

12.5 kHz Channel Spacing

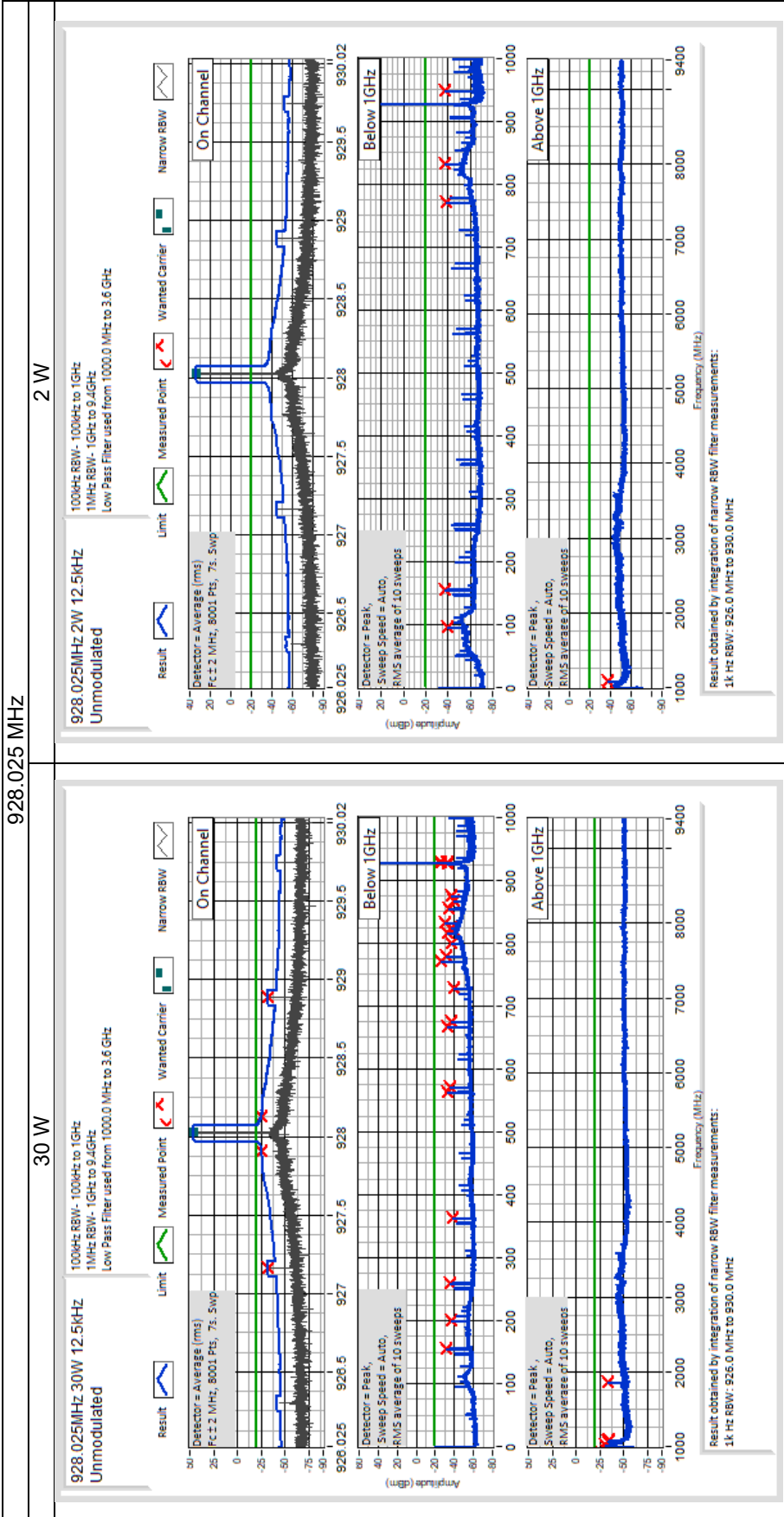
928.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
96.072	-39.4	-72.4
155.985	-37	-70.0
772.062	-38.7	-71.7
831.974	-37.4	-70.4
949.042	-37.9	-70.9
1083.799	-37.5	-70.5

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

931.525 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
99.499	-39.3	-84.1
117.427	-39.9	-84.7
151.468	-38.3	-83.1
156.006	-32.1	-76.9
203.55	-37.6	-82.4
259.944	-35.7	-80.5
363.995	-37.9	-82.7
567.559	-33.5	-78.3
571.984	-36	-80.8
671.496	-32.5	-77.3
676.035	-36.8	-81.6
728.004	-39.8	-84.6
775.547	-25.7	-70.5
779.973	-31.2	-76.0
814.127	-31.5	-76.3
823.091	-34.7	-79.5
831.942	-29	-73.8
845.444	-32.1	-76.9
875.06	-39.5	-84.3
879.485	-37	-81.8
930.662	-32.8	-77.6
931.264	-27.5	-72.3
931.646	-25.8	-70.6
932.387	-32.4	-77.2
1030.79	-29.8	-74.6
1082.847	-32.6	-77.4
1862.752	-33.1	-77.9

12.5 kHz Channel Spacing

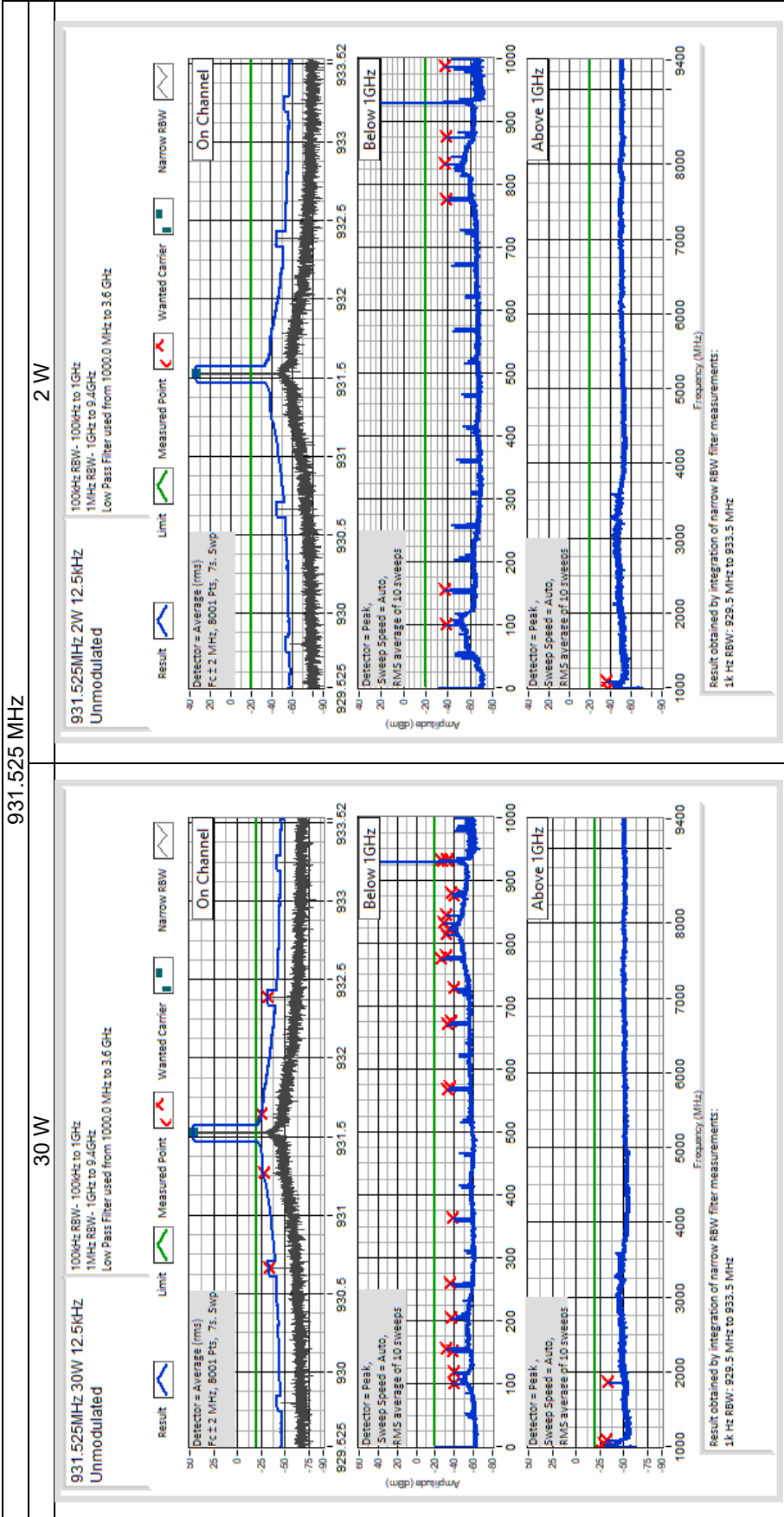
931.525 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
99.499	-38.5	-71.5
156.006	-37.5	-70.5
775.547	-38.4	-71.4
832.055	-37	-70.0
875.514	-38.3	-71.3
987.583	-37.2	-70.2
1087.291	-36.8	-69.8

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

935.025 MHz @ 30 W

Emission Mask D

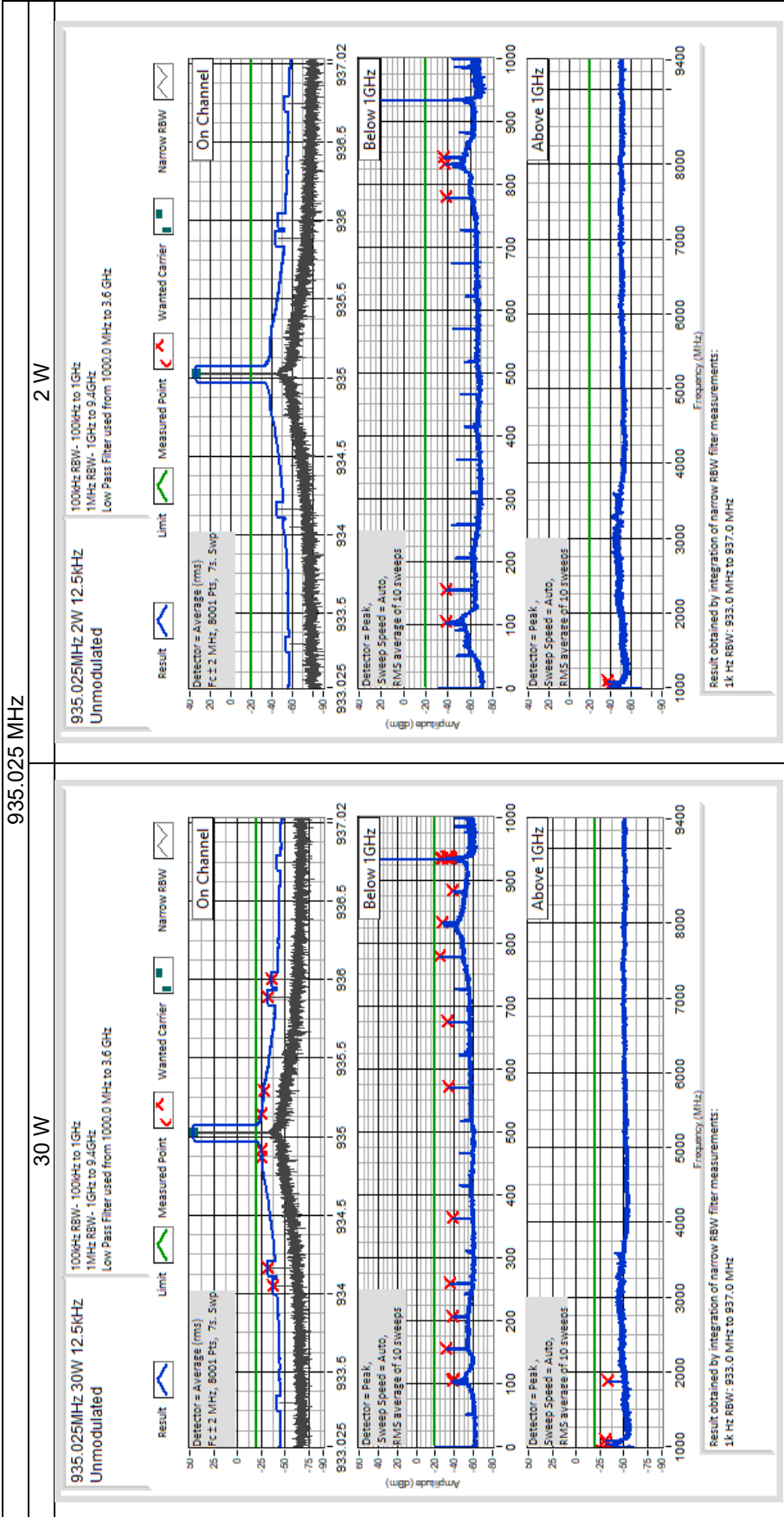
Emission Frequency (MHz)	Level (dBm)	Level (dBc)
103.062	-38.2	-83.0
106.935	-39.1	-83.9
156.024	-31.1	-75.9
207.05	-38.8	-83.6
260.011	-35.8	-80.6
363.999	-38.2	-83.0
571.062	-33.8	-78.6
675.05	-33.1	-77.9
779.037	-25	-69.8
831.999	-28	-72.8
883.025	-37.6	-82.4
934.05	-37.1	-81.9
934.162	-32.4	-77.2
934.869	-26	-70.8
934.914	-25.6	-70.4
935.14	-25.8	-70.6
935.287	-27.7	-72.5
935.887	-32.3	-77.1
936	-35.7	-80.5
1037.773	-32.1	-76.9
1090.783	-30.4	-75.2
1869.735	-33.1	-77.9

12.5 kHz Channel Spacing

935.025 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
103.062	-38.1	-71.1
156.024	-38.6	-71.6
779.037	-38.3	-71.3
831.999	-37.1	-70.1
843.73	-36.4	-69.4
1025.711	-38.2	-71.2
1091.1	-37.5	-70.5



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

12.5 kHz Channel Spacing

939.875 MHz @ 30 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
107.834	-37.4	-82.2
119.511	-39.5	-84.3
156.033	-29.8	-74.6
159.926	-34.2	-79.0
211.904	-38.4	-83.2
259.989	-35.4	-80.2
364.059	-38.2	-83.0
571.97	-36.3	-81.1
575.862	-33.8	-78.6
676.04	-36.8	-81.6
679.818	-32.8	-77.6
779.995	-29.7	-74.5
783.888	-23.5	-68.3
820.41	-30.4	-75.2
828.081	-39.1	-83.9
831.973	-26.2	-71.0
835.866	-36.2	-81.0
839.758	-35.6	-80.4
847.544	-32.2	-77.0
887.844	-37	-81.8
939.012	-32.2	-77.0
939.774	-25.2	-70.0
940.072	-26.9	-71.7
940.138	-27.7	-72.5
940.737	-32.2	-77.0
995.756	-40	-84.8
1010.475	-39.7	-84.5
1021.585	-39	-83.8
1047.613	-33.8	-78.6
1059.04	-37.2	-82.0
1086.021	-37.7	-82.5
1095.544	-33.9	-78.7
1879.575	-32.1	-76.9

12.5 kHz Channel Spacing

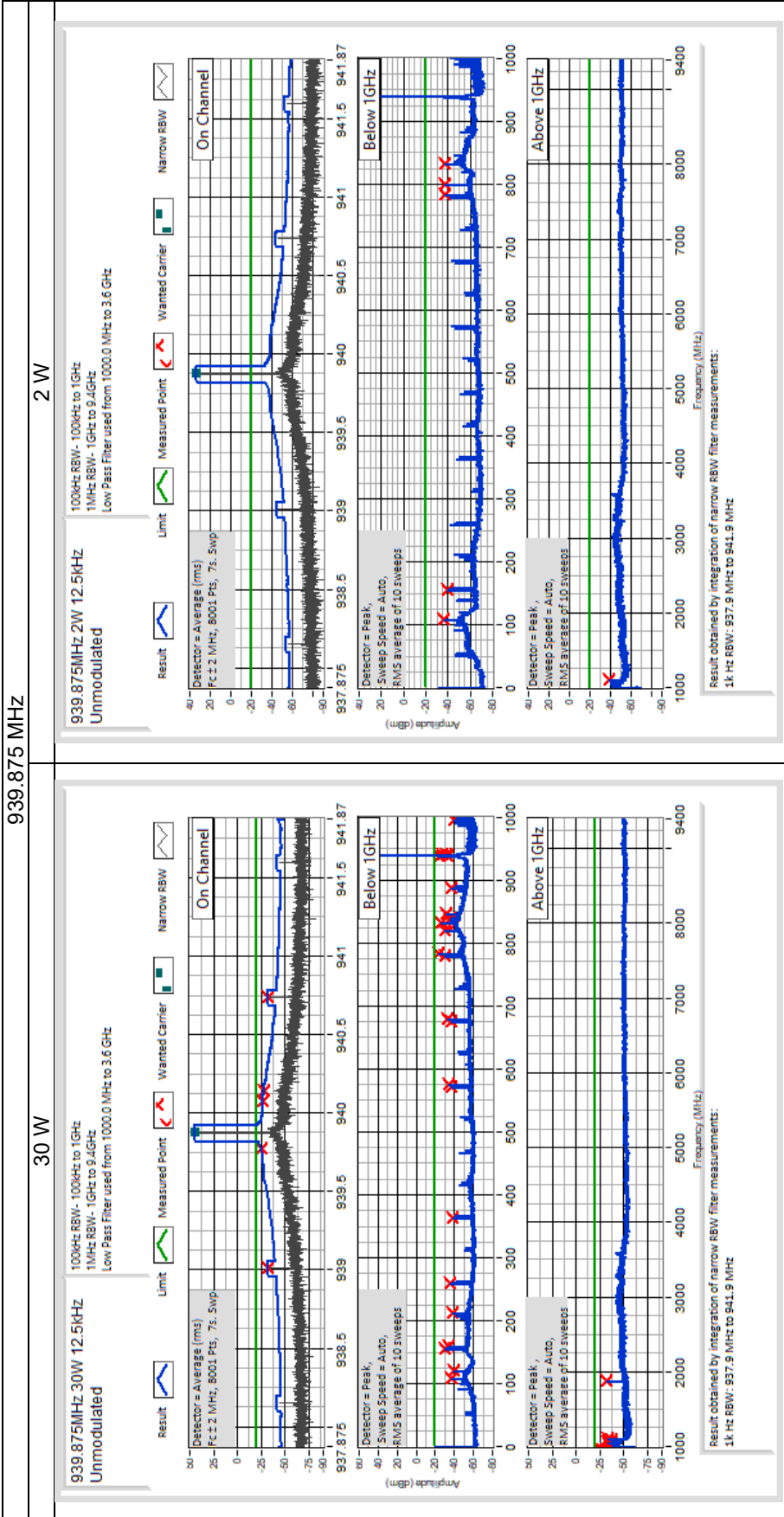
939.875 MHz @ 2 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
107.834	-36.5	-69.5
156.033	-39.4	-72.4
783.888	-37.2	-70.2
800.145	-37.4	-70.4
831.973	-37	-70.0
1095.544	-38.6	-71.6

TELTEST Laboratories
Tait International Ltd
Report Number 4402

Spurious Emissions (Tx Conducted)



Spurious Emissions (Tx Conducted)

SPECIFICATION: FCC 47 CFR 2.1051

RSS-119 5.8

LIMITS: FCC 47 CFR 90.210

RSS-119 5.8

Carrier Output Power	Emission Mask D 12.5 kHz Channel Spacing $50 + 10 \log_{10}(P_{\text{Watts}})$	
	-20 dBm	-67.0 dBc
50 W	-20 dBm	-67.0 dBc
40 W	-20 dBm	-66.0 dBc
35 W	-20 dBm	-65.4 dBc
30 W	-20 dBm	-64.8 dBc
10 W	-20 dBm	-60.0 dBc
2 W	-20 dBm	-53.0 dBc

TRANSMITTER SPURIOUS EMISSIONS (RADIATED)

SPECIFICATION: FCC 47 CFR 2.1053

GUIDE: TIA/EIA-603E 2.2.12

MEASUREMENT PROCEDURE:

Initial Scan:

1. The EUT is placed in the S-Line TEM cell and emissions are measured from 30 MHz to 800 MHz. Any emission within 20 dB of the limit is then re-tested on the OATS.
2. The EUT is placed in the reverberation chamber and emissions are measured from 800 MHz to the upper frequency required ($10 \times F_c$). Any emission within 20 dB of the limit is then re-tested on the OATS.
3. The harmonics emissions up to the 6th harmonic of the fundamental frequency are measured on the OATS

OATS Measurement:

1. The EUT is placed on a wooden turntable at a distance of three metres from the test antenna. The output terminal is connected to an RF dummy load.
2. The test antenna is raised from 1 m to 4 m to obtain a maximum reading; the turntable is then rotated through 360° to obtain the maximum response of each spurious emission. Valid emissions are determined by switching the EUT on and off.
3. The EUT is then replaced by a signal generator and substitution antenna to make measurements by the substitution method.

MEASUREMENT UNCERTAINTY: ≤ 12.75 GHz ± 4.6 dB

MEASUREMENT RESULTS:

See the tables on the following pages

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing

138.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing

138.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing

143.975 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing

143.975 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing

148.025 MHz @ 50 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing

148.025 MHz @ 10 W

Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 150.025 MHz @ 50 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 150.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 150.050 MHz @ 50 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 150.050 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 156.025 MHz @ 50 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 156.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 161.975 MHz @ 50 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 161.975 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 162.025 MHz @ 50 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 162.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 173.975 MHz @ 50 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 173.975 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 378.125 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 378.125 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 406.125 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 406.125 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 418.025 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 418.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 429.975 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 429.975 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 438.025 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 438.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 450.025 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 450.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 460.025 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 460.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 469.975 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 469.975 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 491.025 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 491.025 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 511.975 MHz @ 40 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 511.975 MHz @ 10 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 757.500 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 757.500 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 768.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 768.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 769.075 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 769.075 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 774.900 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 774.900 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 775.975 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 775.975 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 798.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 798.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 799.075 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 799.075 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 804.900 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 804.900 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 805.975 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 805.975 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 806.025 MHz @ 35 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 806.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 815.025 MHz @ 35 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 815.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 823.975 MHz @ 35 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 823.975 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 851.025 MHz @ 35 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 851.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 860.025 MHz @ 35 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 860.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 868.975 MHz @ 35 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 868.975 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 896.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 896.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 900.975 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 900.975 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 902.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 902.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 915.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 915.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 928.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 928.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

12.5 kHz Channel Spacing 931.525 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 931.525 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 935.025 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 935.025 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

12.5 kHz Channel Spacing 939.875 MHz @ 30 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~

12.5 kHz Channel Spacing 939.875 MHz @ 2 W Emission Mask D

Emission Frequency (MHz)	Level (dBm)	Level (dBc)
~	~	~
No emissions were detected at a level greater than 20 dB below the limit.		

Spurious Emissions (Tx Radiated) – Continued

LIMITS: FCC 47 CFR 2.1053

Carrier Output Power	Emission Mask D 12.5 kHz Channel Spacing $50 + 10 \log_{10} (P_{\text{Watts}})$	
	-20 dBm	-67.0 dBc
50 W	-20 dBm	-67.0 dBc
40 W	-20 dBm	-66.0 dBc
35 W	-20 dBm	-65.4 dBc
30 W	-20 dBm	-64.8 dBc
10 W	-20 dBm	-60.0 dBc
2 W	-20 dBm	-53.0 dBc

Spurious Emissions (Tx Radiated) - Continued

Open Area Test Site Results:

12.5 kHz Channel Spacing

138.025 MHz @ 50 W

Emission Mask D

Harmonics Emission Frequency (MHz)	Level (dBm)	Level (dBc)
276.05	-82.0	-129
414.075	-79.9	-126.9
552.1	-76.1	-123.1
690.125	-70.4	-117.4
828.15	-55.9	-102.9
966.175	-70.1	-117.1

Sample Calculation

Sample Calculation	Measurement				Result	
	Reference	Substitution				
Emission Frequency (MHz)	Reference Level (dBm)	Sig-gen Level	Cable and Attenuator Gain	Antenna Gain (dBd)	dBm	dBc
828.15	-89	-45	-16.08	5.15	-55.93	-102.92
		A	B	C	E	

Result (E) = A+B+C

Open Area Test Site Results:

12.5 kHz Channel Spacing

939.875 MHz @ 30 W

Emission Mask D

Harmonics Emission Frequency (MHz)	Level (dBm)	Level (dBc)
1879.75	-58.6	-103.4
2819.625	-57.5	-102.3
3759.5	-61.3	-106.1
4699.375	-71.5	-116.3
5639.25	-66.0	-110.8
6579.125	-69.4	-114.2

Photo: OATS Setup

