## Test Report No.50259612 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50259612 001 AppendixD)

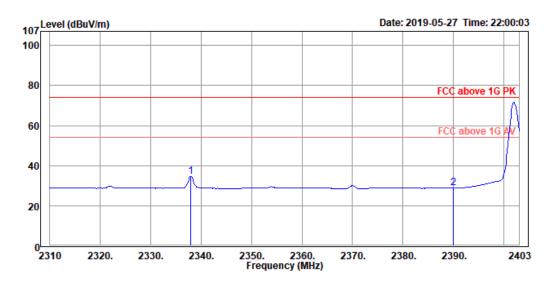
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# Spurious Emissions, Band Edges, 2.35-2.5G Radiated Bandedge (GFSK), Low Channel



TUV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A

Condition : FCC above 1G PK 3m Horizontal

Test Engineer: Kevin Kuo

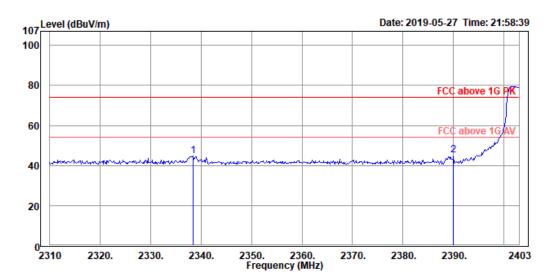
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

Freq	Level		Factor		Over Limit	APos	TPos	Remark	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		_	
2337.900 2390.000								Average Average		





Condition : FCC above 1G PK 3m Horizontal

Test Engineer: Kevin Kuo

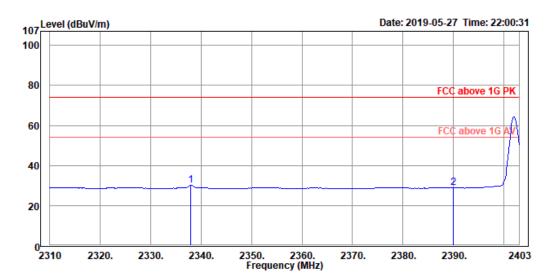
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

**TPos** Limit Over APos Read Freq Level Level Factor Line Limit Remark Note MHz dBuV/m dBuV dB/m dBuV/m cmdeg 2338.439 44.80 52.92 -8.12 74.00 -29.20 107 256 Peak 2390.000 45.09 53.19 -8.10 74.00 -28.91 107 256 Peak





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

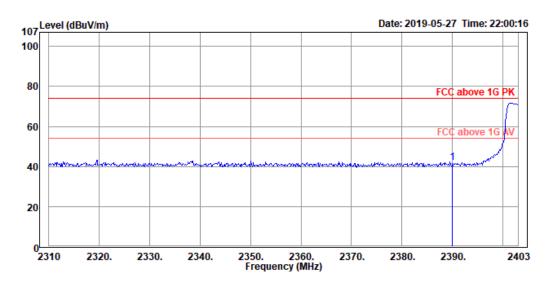
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

Freq	Level	Read Level				APos	TPos	Remark	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
	30.09 28.89					100 100		Average Average	





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

: (Y-橫躺)

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402

Memo

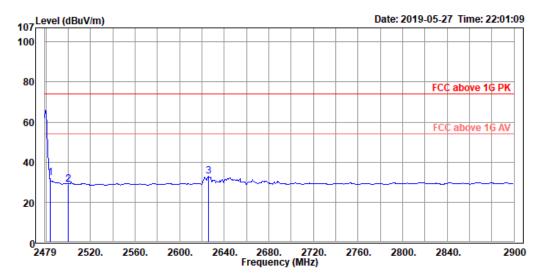
Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1 2390.000 42.04 50.14 -8.10 74.00 -31.96 100 33 Peak



TUV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A

Condition : FCC above 1G PK 3m Horizontal

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

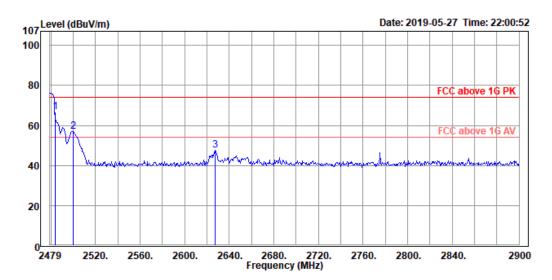
Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default

Power Setting: default Mode : TX-2480 Memo : (Y-橫躺)

	Freq	Level	Read Level			Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		deg		_
1 2 3	2483.500 2500.000 2626.045	29.03	37.12	-8.09	54.00	-24.97	100 100 100	287	Average Average Average	





Condition : FCC above 1G PK 3m Horizontal

Test Engineer: Kevin Kuo

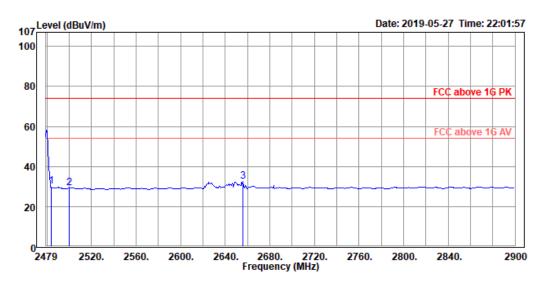
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

			Read		Limit	0ver	APos	TPos			
	Freq	Level	Level	Factor	Line	Limit			Remark	Note	
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2483.500	66.54	74.63	-8.09	74.00	-7.46	100	287	Peak		
2	2500.000	56.98	65.07	-8.09	74.00	-17.02	100	287	Peak		
3	2627.265	47.68	55.56	-7.88	74.00	-26.32	100	287	Peak		





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

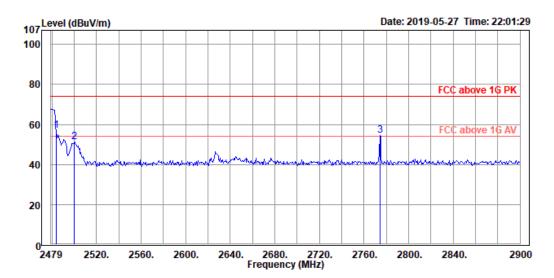
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

lemo : (Y-橫躺)
Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1	2483.500	30.12	38.21	-8.09	54.00 -23.88	100	58 Average
2	2500.000	29.25	37.34	-8.09	54.00 -24.75	100	58 Average
3	2655.942	32.38	40.21	-7.83	54.00 -21.62	100	58 Average





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

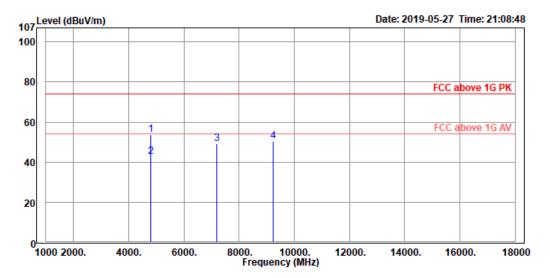
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level					APOS	IPOS	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2483.500	56.99	65.08	-8.09	74.00	-17.01	100	58	Peak	
2	2500.000	51.09	59.18	-8.09	74.00	-22.91	100	58	Peak	
3	2774.310	54.64	62.27	-7.63	74.00	-19.36	100	58	Peak	

#### Spurious Emissions, TX Mode, 1-18G



TUV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A

Condition : FCC above 1G PK 3m horizontal

Test Engineer: Kevin Kuo

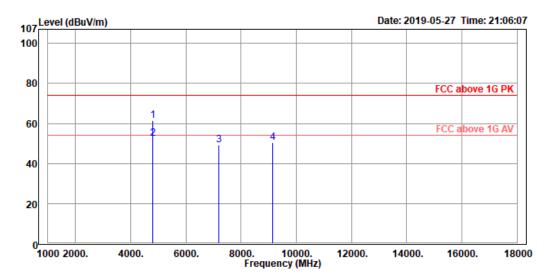
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level			Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1 2 3	4804.000 4804.000 7206.000	42.58	45.22	-2.64	54.00	-11.42	100 100 100	225	Peak Average Peak	
4	9228.985						100	332	Peak	





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

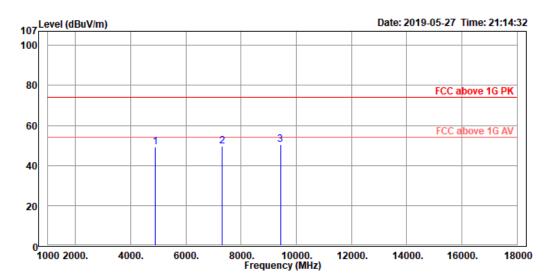
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

			Read		Limit	0ver	APos	TPos			
	Freq	Level	Level	Factor	Line	Limit			Remark	Note	
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.000	61.33	63.97	-2.64	74.00	-12.67	100	193	Peak		
2	4804.000	52.38	55.02	-2.64	54.00	-1.62	100	193	Average		
3	7206.000	49.06	43.80	5.26	74.00	-24.94	100	13	Peak		
4	9155.072	50.32	43.78	6.54	74.00	-23.68	100	277	Peak		





Condition : FCC above 1G PK 3m horizontal

Test Engineer: Kevin Kuo

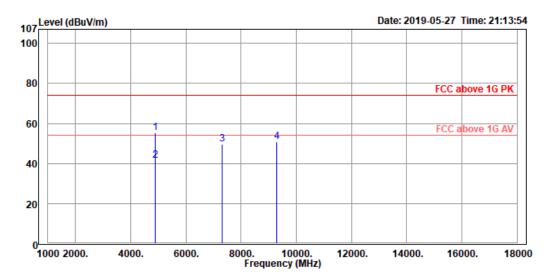
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

			Read		Limit	0ver	APos	TPos			
	Freq	Level	Level	Factor	Line	Limit			Remark	Note	
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.000	49.17	51.62	-2.45	74.00	-24.83	100	252	Peak		
2	7320.000	49.50	43.96	5.54	74.00	-24.50	100	279	Peak		
3	9426.087	50.33	43.91	6.42	74.00	-23.67	100	344	Peak		





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

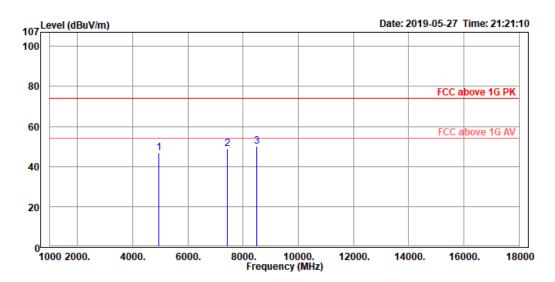
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

Frea	Level	Read Level			Over Limit	APos	TPos	Remark	Note
MHZ	dBuV/m	dBuV	dB/m	dBuV/m	qB	CM	deg		
4880.000	55.20	57.65	-2.45	74.00	-18.80	100	184	Peak	
4880.000	41.37	43.82	-2.45	54.00	-12.63	100	184	Average	
7320.000	49.68	44.14	5.54	74.00	-24.32	100	124	Peak	
9302.898	50.68	44.21	6.47	74.00	-23.32	100	311	Peak	





Condition : FCC above 1G PK 3m horizontal

Test Engineer: Kevin Kuo

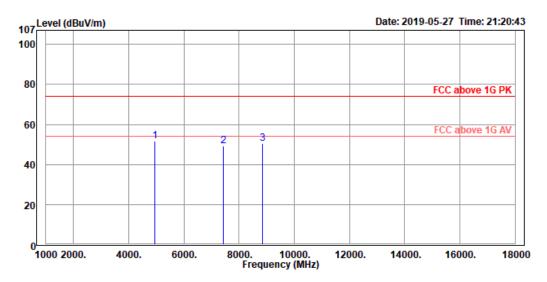
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level			Over Limit	APos	TPos	Remark	Note	
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		deg			_
1	4960.000	46.69	48.94	-2.25	74.00	-27.31	100	251	Peak		
2	7440.000	49.00	43.17	5.83	74.00	-25.00	100	49	Peak		
3	8489.855	49.85	43.25	6.60	74.00	-24.15	100	15	Peak		





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

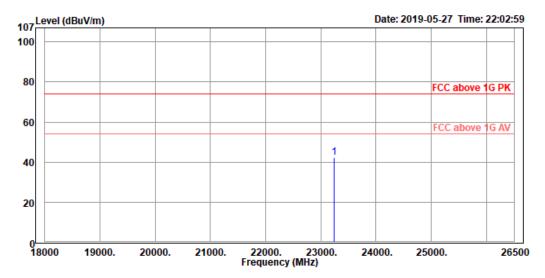
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

			Read		Limit	0ver	APos	TPos			
	Freq	Level	Level	Factor	Line	Limit			Remark	Note	
											_
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
									_		
1	4960.000	51.60	53.85	-2.25	74.00	-22.40	100	198	Peak		
2	7440.000	49.18	43.35	5.83	74.00	-24.82	100	87	Peak		
3	8859.420	50.25	43.63	6.62	74.00	-23.75	100	164	Peak		

#### Spurious Emissions, TX Mode, 18-26G



TUV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A

Condition : FCC above 1G PK 3m horizontal

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402

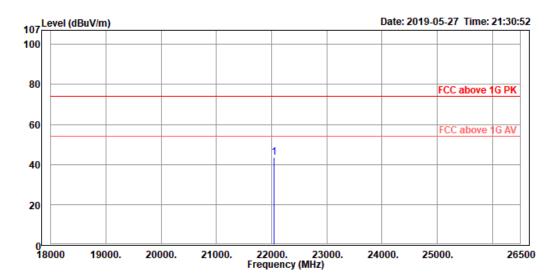
Mode : TX-2402 Memo : (Y-横躺)

Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1 23235.510 42.51 37.28 5.23 74.00 -31.49 119 246 Peak





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402

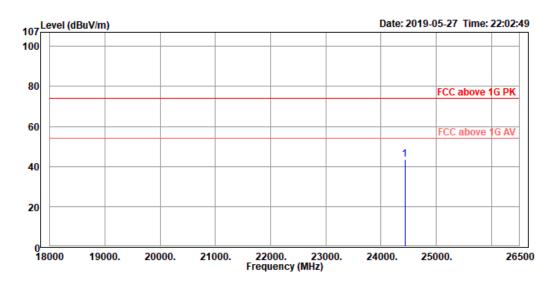
Mode : TX-2402 Memo : (Y-横躺)

Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1 22040.580 43.57 39.14 4.43 74.00 -30.43 100 200 Peak





Condition : FCC above 1G PK 3m horizontal

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440

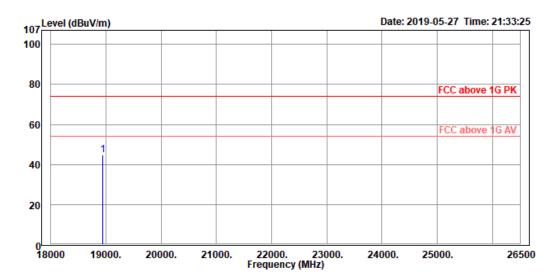
Mode : TX-2440 Memo : (Y-横躺)

Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1 24430.440 43.61 38.46 5.15 74.00 -30.39 121 11 Peak





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

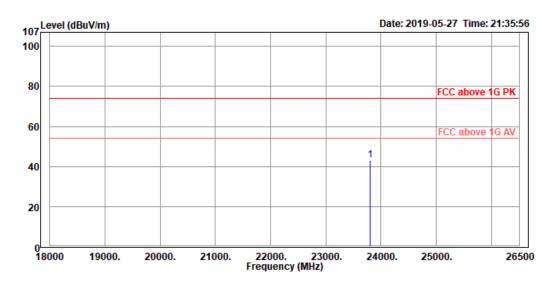
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1 18936.230 44.61 40.79 3.82 74.00 -29.39 100 180 Peak





Condition : FCC above 1G PK 3m horizontal

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480

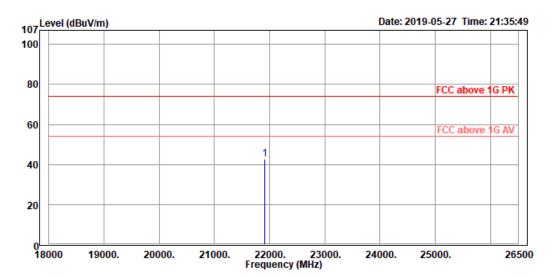
Mode : TX-2480 Memo : (Y-橫躺)

Read Limit Over APos TPos
Freq Level Level Factor Line Limit Remark Note

MHz dBuV/m dBuV dB/m dBuV/m dB cm deg

1 23802.170 43.26 37.99 5.27 74.00 -30.74 100 0 Peak





Condition : FCC above 1G PK 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

: (Y-橫躺)

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480

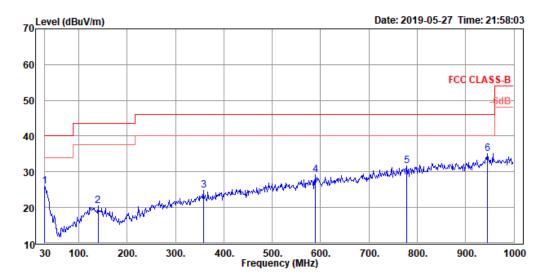
Memo

1 21905.070 42.75 38.41 4.34 74.00 -31.25 100 349 Peak

#### Spurious Emissions, TX Mode, 30M-1G



TUV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A

Condition : FCC CLASS-B 3m horizontal

Test Engineer: Kevin Kuo

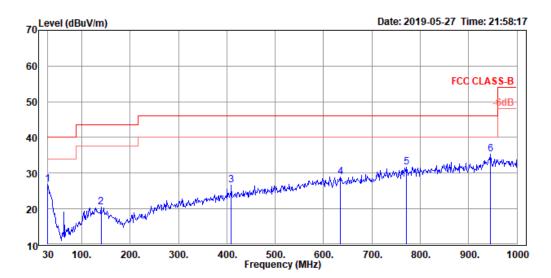
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

Freq	Level	Kead Level				APos	IPos	Remark	Note	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		deg			_
30.000	25.99	26.02	-0.03	40.00	-14.01	100	199	QP		
139.652	20.44	27.44	-7.00	43.50	-23.06	114	156	QP		
357.551	24.80	27.97	-3.17	46.00	-21.20	100	13	QP		
589.507	29.06	28.92	0.14	46.00	-16.94	100	142	QP		
777.884	31.68	28.86	2.82	46.00	-14.32	129	148	QP		
945.174	35.10	29.61	5.49	46.00	-10.90	100	303	QP		
	MHz 30.000 139.652 357.551 589.507 777.884	MHz dBuV/m  30.000 25.99 139.652 20.44 357.551 24.80 589.507 29.06 777.884 31.68	Freq Level Level  MHz dBuV/m dBuV  30.000 25.99 26.02 139.652 20.44 27.44 357.551 24.80 27.97 589.507 29.06 28.92 777.884 31.68 28.86	Freq Level Level Factor  MHz dBuV/m dBuV dB/m  30.000 25.99 26.02 -0.03 139.652 20.44 27.44 -7.00 357.551 24.80 27.97 -3.17 589.507 29.06 28.92 0.14 777.884 31.68 28.86 2.82	Freq Level Level Factor Line  MHz dBuV/m dBuV dB/m dBuV/m  30.000 25.99 26.02 -0.03 40.00 139.652 20.44 27.44 -7.00 43.50 357.551 24.80 27.97 -3.17 46.00 589.507 29.06 28.92 0.14 46.00 777.884 31.68 28.86 2.82 46.00	Freq Level Level Factor Line Limit	Freq Level Level Factor Line Limit  MHz dBuV/m dBuV dB/m dBuV/m dB cm  30.000 25.99 26.02 -0.03 40.00 -14.01 100 139.652 20.44 27.44 -7.00 43.50 -23.06 114 357.551 24.80 27.97 -3.17 46.00 -21.20 100 589.507 29.06 28.92 0.14 46.00 -16.94 100 777.884 31.68 28.86 2.82 46.00 -14.32 129	Freq Level Level Factor Line Limit  MHz dBuV/m dBuV dB/m dBuV/m dB cm deg  30.000 25.99 26.02 -0.03 40.00 -14.01 100 199  139.652 20.44 27.44 -7.00 43.50 -23.06 114 156  357.551 24.80 27.97 -3.17 46.00 -21.20 100 13  589.507 29.06 28.92 0.14 46.00 -16.94 100 142  777.884 31.68 28.86 2.82 46.00 -14.32 129 148	Freq Level Level Factor Line Limit Remark  MHz dBuV/m dBuV dB/m dBuV/m dB cm deg  30.000 25.99 26.02 -0.03 40.00 -14.01 100 199 QP 139.652 20.44 27.44 -7.00 43.50 -23.06 114 156 QP 357.551 24.80 27.97 -3.17 46.00 -21.20 100 13 QP 589.507 29.06 28.92 0.14 46.00 -16.94 100 142 QP 777.884 31.68 28.86 2.82 46.00 -14.32 129 148 QP	Freq Level Level Factor Line Limit Remark Note    MHz dBuV/m dBuV dB/m dBuV/m dB cm deg





Condition : FCC CLASS-B 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

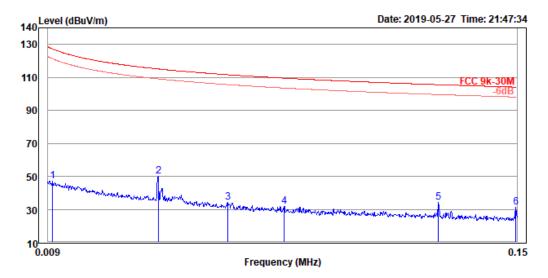
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level		Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	30.000	26.92	26.95	-0.03	40.00	-13.08	100	278	QP	
2	139.652	20.43	27.43	-7.00	43.50	-23.07	106	296	QP	
3	409.565	26.58	28.64	-2.06	46.00	-19.42	100	150	QP	
4	634.493	29.04	28.28	0.76	46.00	-16.96	100	48	QP	
5	772.261	31.67	28.92	2.75	46.00	-14.33	112	58	QP	
6	945.174	35.42	29.93	5.49	46.00	-10.58	100	78	QP	

#### Spurious Emissions, TX Mode, 9k-30M



TUV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A

Condition : FCC 9k-30M 3m vertical

Test Engineer: Kevin Kuo

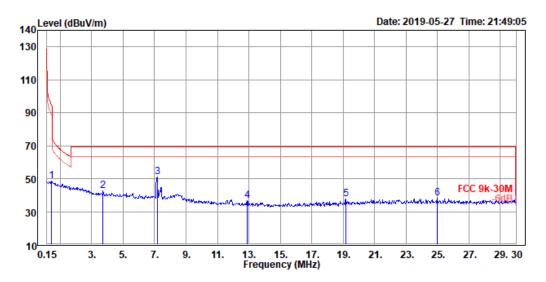
Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 ℃ / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

			Read		Limit	0ver	APos	TPos		
	Freq	Level	Level	Factor	Line	Limit			Remark	Note
					4D-3//					
	MHZ	dBuV/m	dBuV	aB/m	dBuV/m	dB	CM	deg		
1	0.010	47.29	28.75	18.54	127.24	-79.95	100	20	QP	
2	0.042	49.91	30.83	19.08	115.10	-65.19	100	104	QP	
3	0.063	34.37	15.61	18.76	111.59	-77.22	100	35	QP	
4	0.080	31.68	13.12	18.56	109.53	-77.85	100	118	QP	
5	0.126	34.10	15.76	18.34	105.56	-71.46	100	130	QP	
6	0.150	31.14	12.79	18.35	104.09	-72.95	100	29	QP	





Condition : FCC 9k-30M 3m vertical

Test Engineer: Kevin Kuo

Applicant : NANOSECOND TECHNOLOGY CO.,LTD

Product : NSD SPINNER/POWERBALL

Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level		Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.419	48.38	29.81	18.57	95.17	-46.79	100	98	QP	
2	3.732	42.77	23.90	18.87	69.50	-26.73	100	233	QP	
3	7.165	50.87	30.98	19.89	69.50	-18.63	100	107	QP	
4	12.896	36.53	15.75	20.78	69.50	-32.97	100	236	QP	
5	19.164	37.89	16.38	21.51	69.50	-31.61	100	308	QP	
6	25.015	38.20	16.41	21.79	69.50	-31.30	100	224	QP	