# Test Report No.50111739 001

# Appendix D: Radiated and Mains Spurious Emission Data

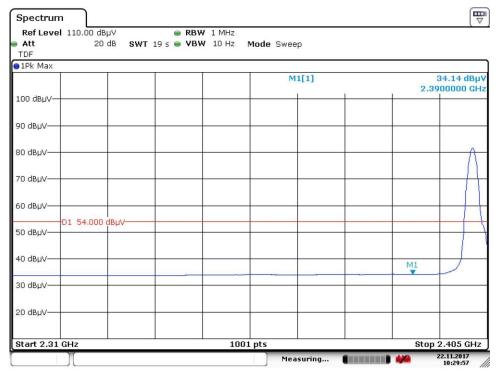
(File: 50111739AppendixD)

# Contents

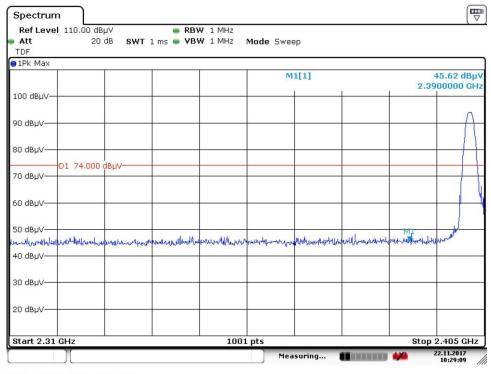
Spurious Emissions, Band Edges, 2.35-2.5G	2
Spurious Emissions, TX Mode, 1-18G	10
Spurious Emissions, TX Mode, 18-26G	22
Spurious Emissions, TX Mode, 30M-1G	34
Spurious Emissions, TX Mode, 9k-30M	36
Spurious Emissions, RX Mode, 1-18G	38
Spurious Emissions, RX Mode, 18-26G	40
Spurious Emissions, RX Mode, 30M-1G	42
Spurious Emissions, RX Mode, 9K-30M	44
Spurious Emissions, Mains, 150kHz - 30MHz	46

# Radiated Bandedge (GFSK)

# Low Channel (Hor)

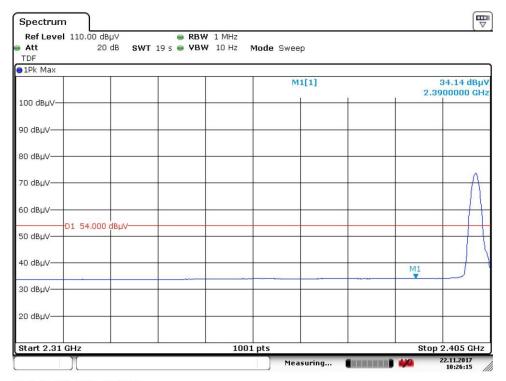


Date: 22.NOV.2017 10:29:57

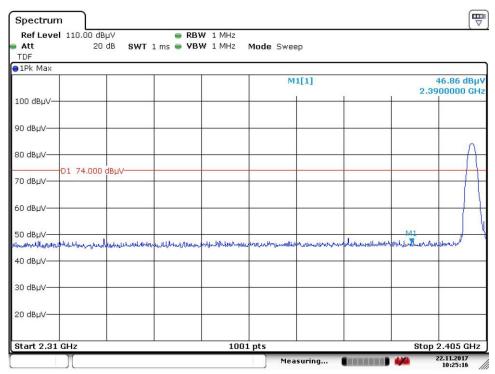


Date: 22.NOV.2017 10:29:10

# Low Channel (Ver)

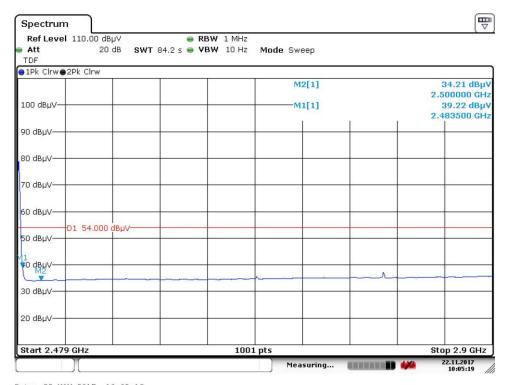


Date: 22.NOV.2017 10:26:16

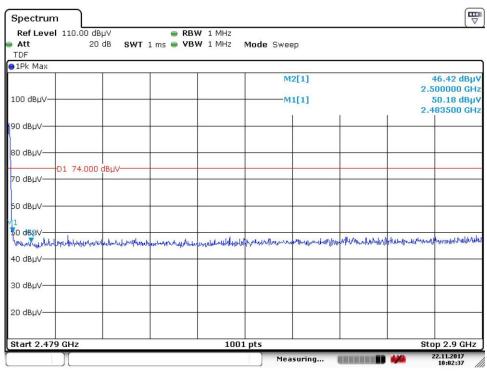


Date: 22.NOV.2017 10:25:16

# **High Channel (Hor)**

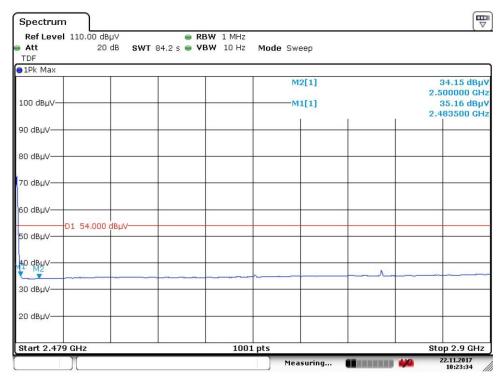


Date: 22.NOV.2017 10:05:18

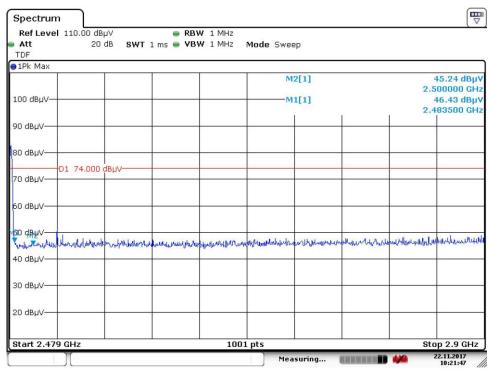


Date: 22.NOV.2017 10:02:38

# High Channel (Ver)



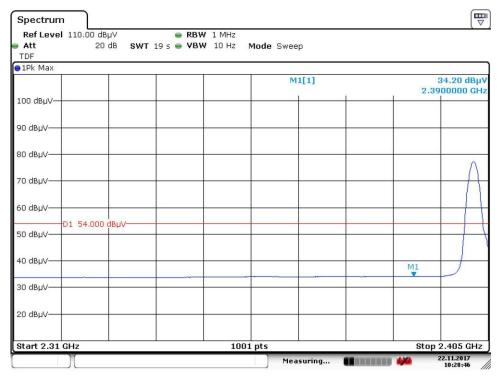
Date: 22.NOV.2017 10:23:34



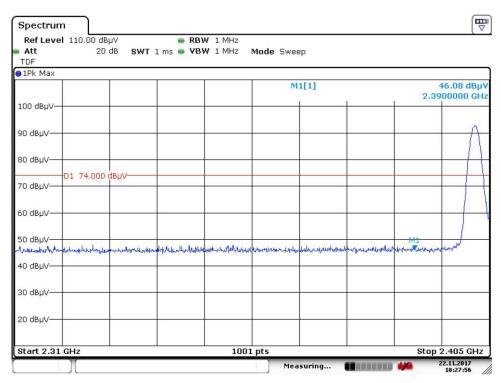
Date: 22.NOV.2017 10:21:47

# Radiated Bandedge (8DPSK)

## Low Channel (Hor)

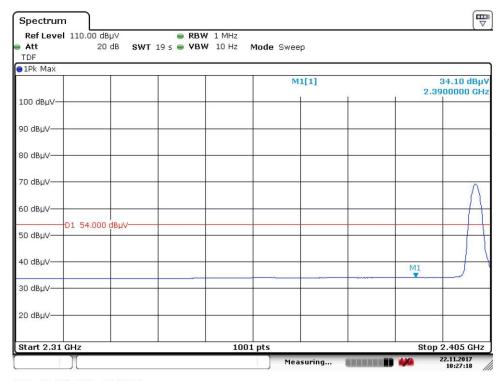


Date: 22.NOV.2017 10:28:47

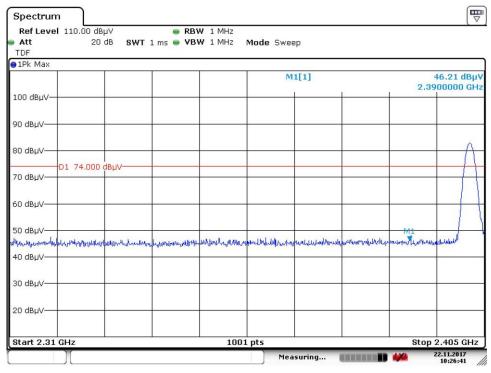


Date: 22.NOV.2017 10:27:57

# Low Channel (Ver)

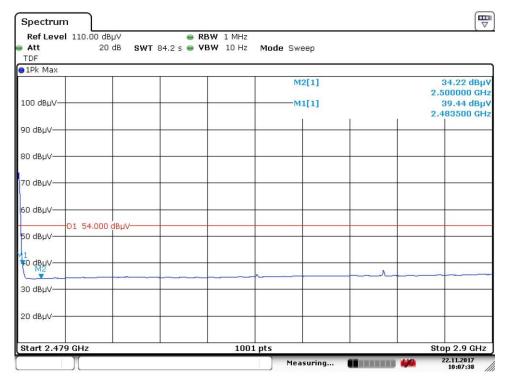


Date: 22.NOV.2017 10:27:18

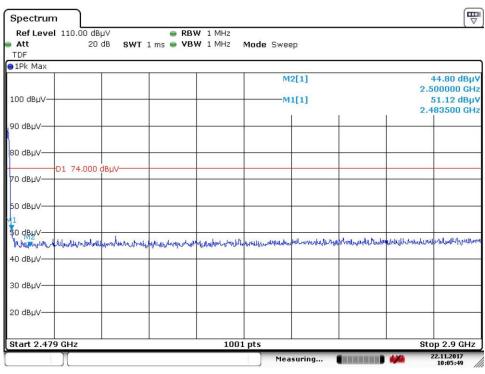


Date: 22.NOV.2017 10:26:42

# **High Channel (Hor)**

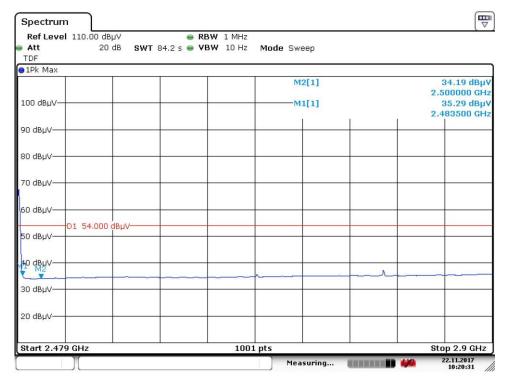


Date: 22.NOV.2017 10:07:39

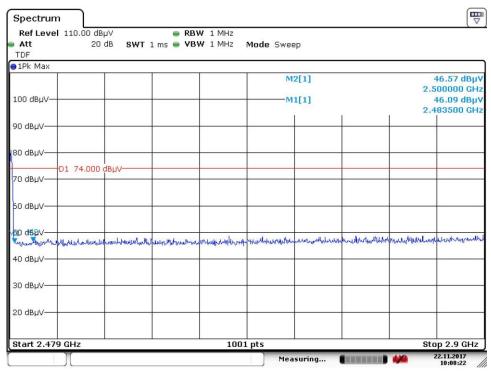


Date: 22.NOV.2017 10:05:50

# High Channel (Ver)



Date: 22.NOV.2017 10:20:32



Date: 22.NOV.2017 10:08:22

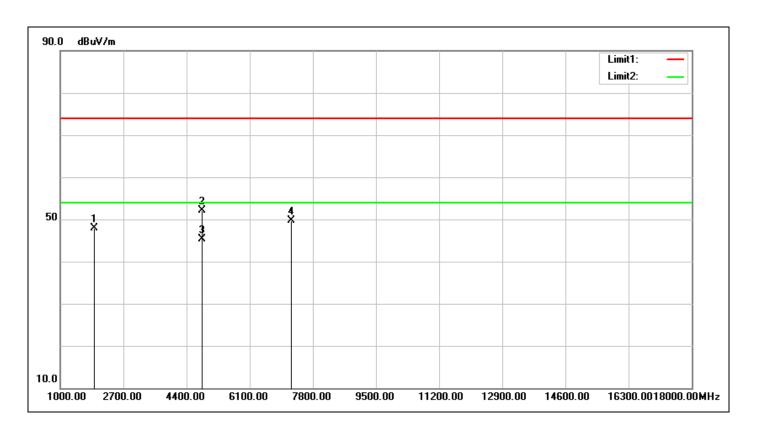
# Spurious Emissions, TX Mode, 1-18G



## **TUV Rheinland Taiwan Ltd.**

## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 10:35:12

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.(°C)/Hum.(%): 20.2(°C)/65%

Model No.: Ink Pro Test Engineer: George Yang

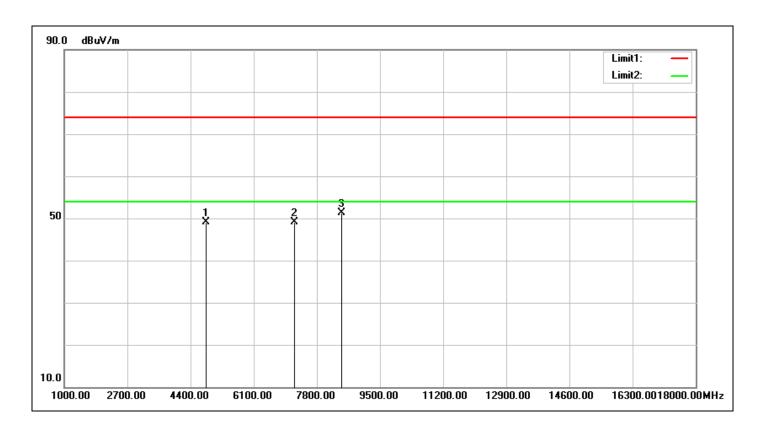
**Test Mode: 1DH5-2402-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-4.97	52.84	47.87	74.00	-26.13	peak	100	15	
2	4804.000	3.14	49.03	52.17	74.00	-21.83	peak	100	177	
3	4804.000	3.14	42.15	45.29	54.00	-8.71	AVG	100	177	
4	7206.000	4.76	44.99	49.75	74.00	-24.25	peak		0	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 10:36:14

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

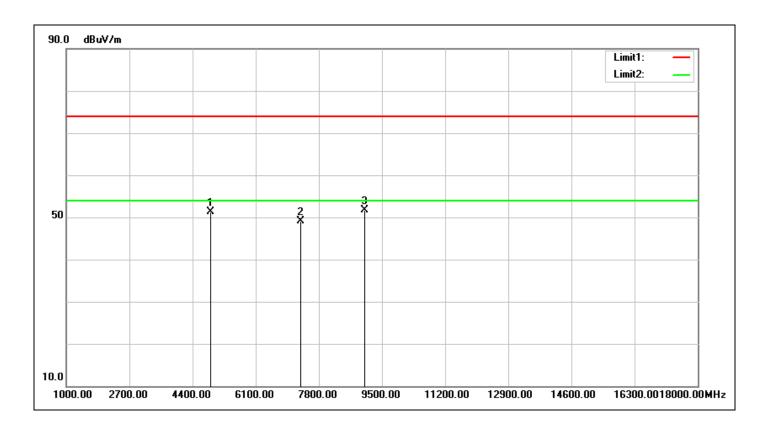
Test Mode: 1DH5-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	4804.000	3.14	45.95	49.09	74.00	-24.91	peak	100	153	
2	7206.000	4.76	44.27	49.03	74.00	-24.97	peak			
3	8463.000	4.79	46.51	51.30	74.00	-22.70	peak	100	147	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 10:39:27

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

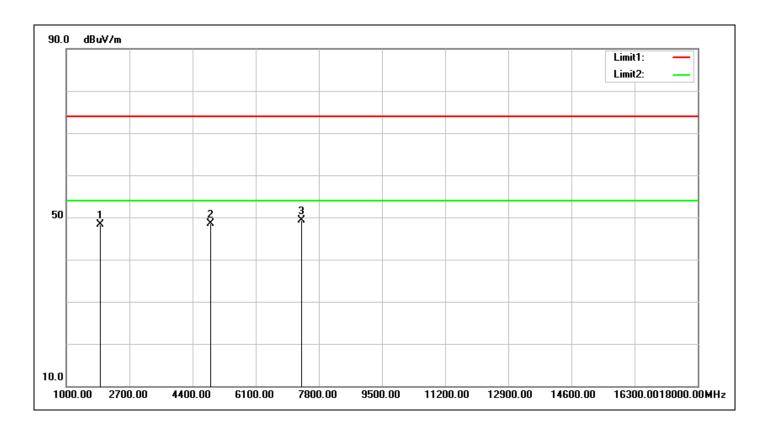
**Test Mode: 1DH5-2441-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	4882.000	3.45	47.83	51.28	74.00	-22.72	peak	100	234	
2	7323.000	4.69	44.41	49.10	74.00	-24.90	peak			
3	9024.000	5.89	45.90	51.79	74.00	-22.21	peak	100	153	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 10:40:30

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

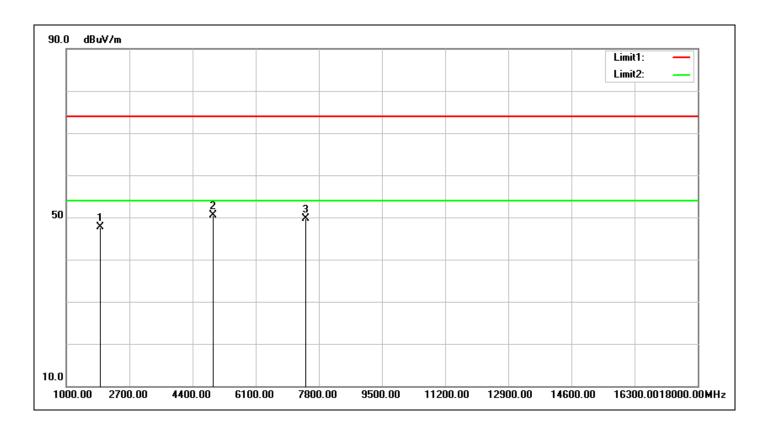
**Test Mode: 1DH5-2441-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-4.97	53.34	48.37	74.00	-25.63	peak	100	340	
2	4882.000	3.45	45.15	48.60	74.00	-25.40	peak	100	165	
3	7323.000	4.69	44.57	49.26	74.00	-24.74	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 10:42:29

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

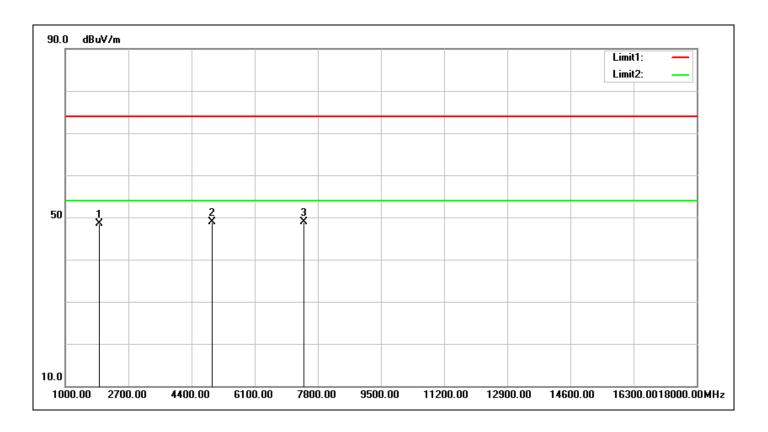
Test Mode: 1DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-4.97	52.59	47.62	74.00	-26.38	peak	100	9	
2	4960.000	3.77	46.81	50.58	74.00	-23.42	peak	100	4	
3	7440.000	4.62	45.11	49.73	74.00	-24.27	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 10:43:32

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

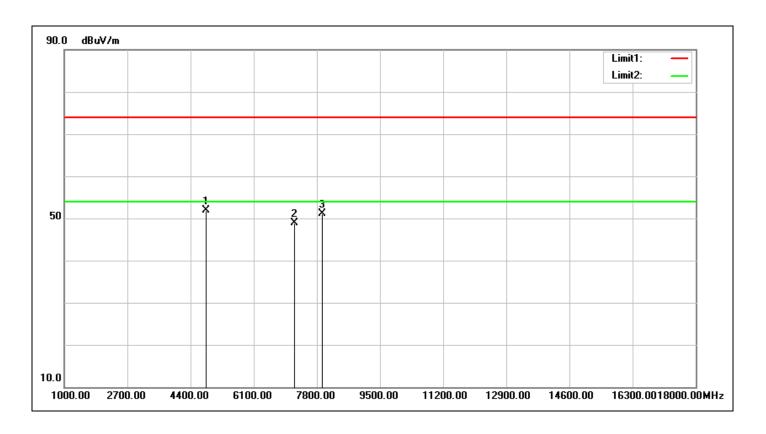
Test Mode: 1DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-4.97	53.46	48.49	74.00	-25.51	peak	100	340	
2	4960.000	3.77	45.05	48.82	74.00	-25.18	peak	100	171	
3	7440.000	4.62	44.38	49.00	74.00	-25.00	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 10:48:54

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

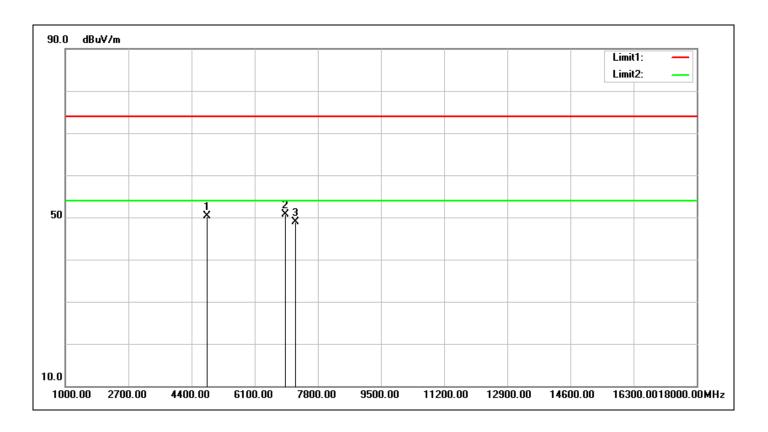
Test Mode: 3DH5-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	4804.000	3.14	48.82	51.96	74.00	-22.04	peak	100	64	
2	7206.000	4.76	44.23	48.99	74.00	-25.01	peak			
3	7936.000	4.67	46.38	51.05	74.00	-22.95	peak	100	45	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 10:49:57

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

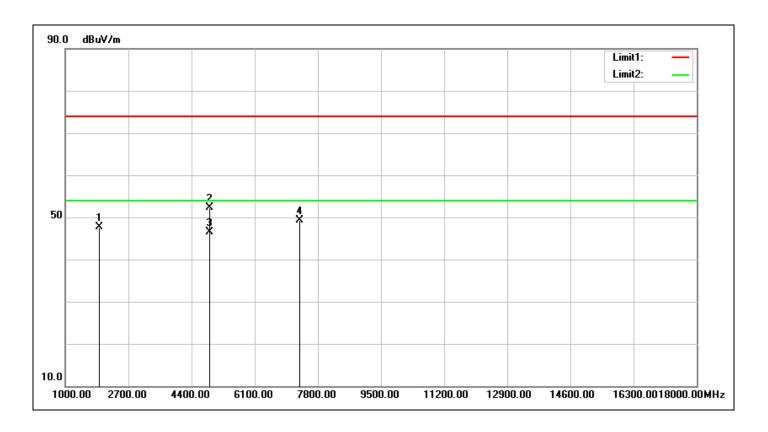
Test Mode: 3DH5-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	4804.000	3.14	47.17	50.31	74.00	-23.69	peak	100	157	
2	6933.000	4.98	45.63	50.61	74.00	-23.39	peak	100	55	
3	7206.000	4.76	44.05	48.81	74.00	-25.19	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 10:52:30

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

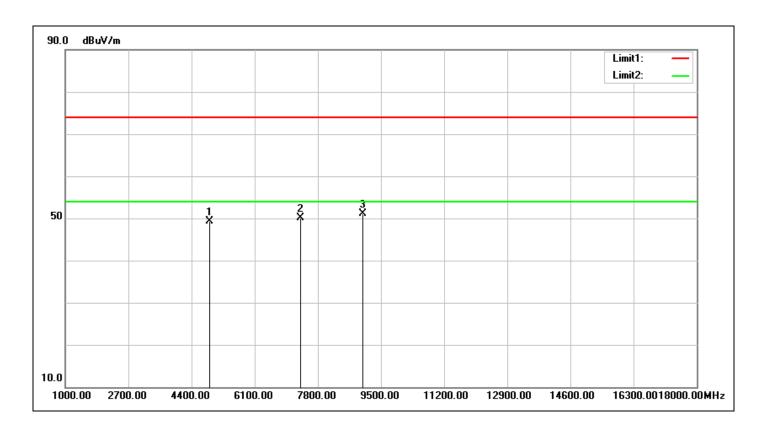
Test Mode: 3DH5-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-4.97	52.73	47.76	74.00	-26.24	peak	100	14	
2	4882.000	3.45	48.89	52.34	74.00	-21.66	peak	100	153	
3	4882.000	3.45	43.06	46.51	54.00	-7.49	AVG	100	153	
4	7323.000	4.69	44.59	49.28	74.00	-24.72	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 10:53:32

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

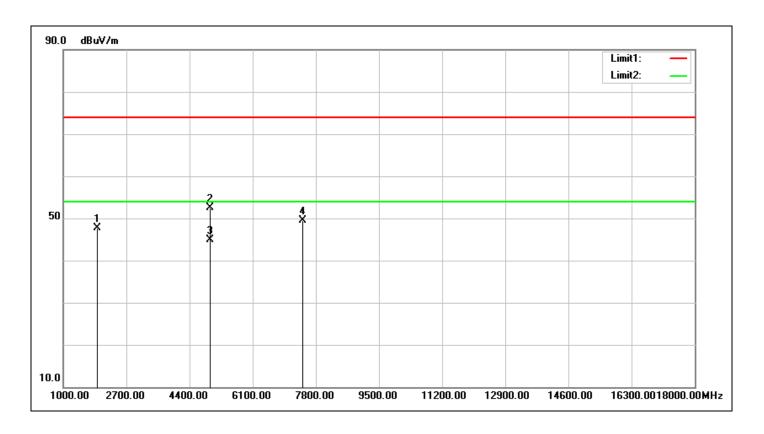
Test Mode: 3DH5-2441-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	4882.000	3.45	45.94	49.39	74.00	-24.61	peak	100	163	
2	7323.000	4.69	45.47	50.16	74.00	-23.84	peak			
3	9007.000	5.86	45.34	51.20	74.00	-22.80	peak	100	218	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 10:56:07

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

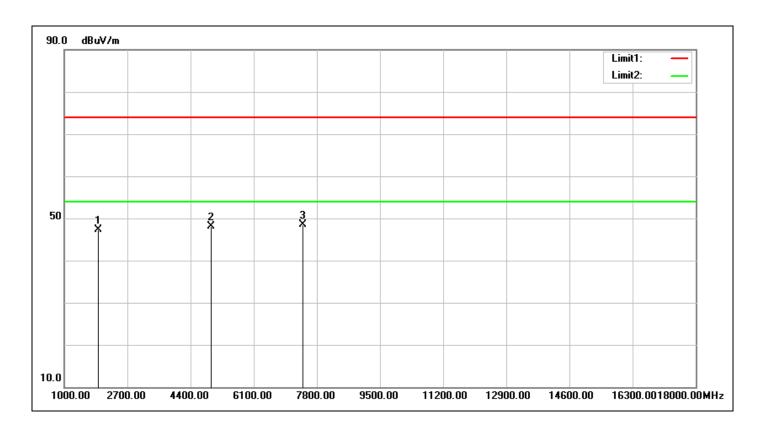
Test Mode: 3DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	1918.000	-4.97	52.70	47.73	74.00	-26.27	peak	100	3	
2	4960.000	3.77	48.73	52.50	74.00	-21.50	peak	100	195	
3	4960.000	3.77	41.09	44.86	54.00	-9.14	AVG	100	195	
4	7440.000	4.62	44.90	49.52	74.00	-24.48	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 10:57:10

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

Test Mode: 3DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	1918.000	-4.97	52.32	47.35	74.00	-26.65	peak	100	340	
2	4960.000	3.77	44.34	48.11	74.00	-25.89	peak			
3	7440.000	4.62	43.88	48.50	74.00	-25.50	peak			

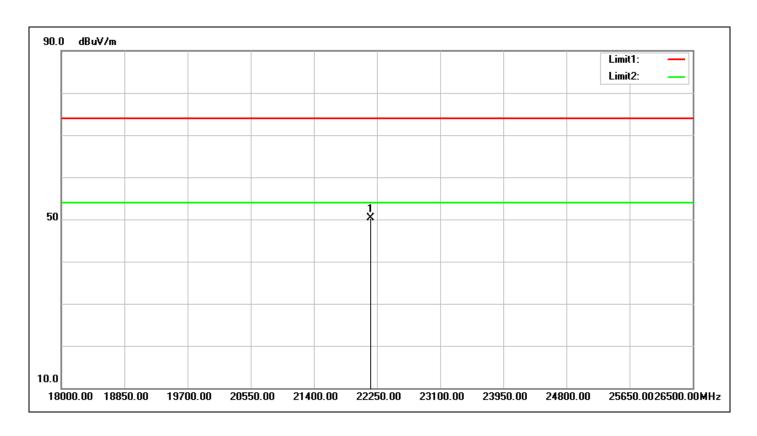
# Spurious Emissions, TX Mode, 18-26G



## **TUV Rheinland Taiwan Ltd.**

#### 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance:

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:13:32

3m

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.(°C)/Hum.(%): 20.2(°C)/65%

Model No.: Ink Pro Test Engineer: George Yang

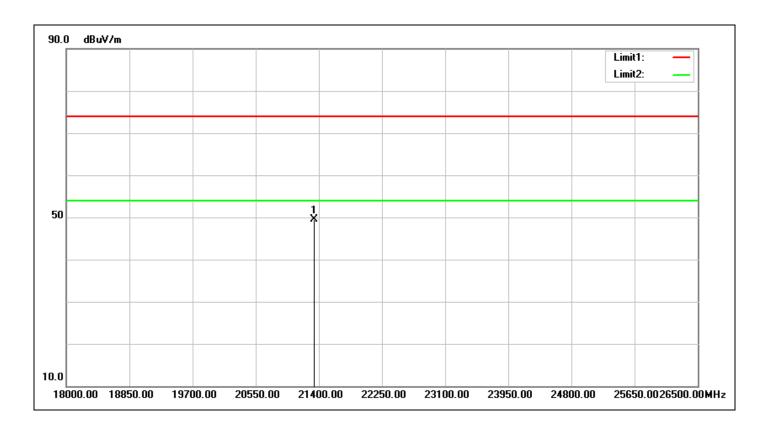
Test Mode: 1DH5-2402-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	22165.000	32.47	17.82	50.29	74.00	-23.71	peak		0	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:13:42

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

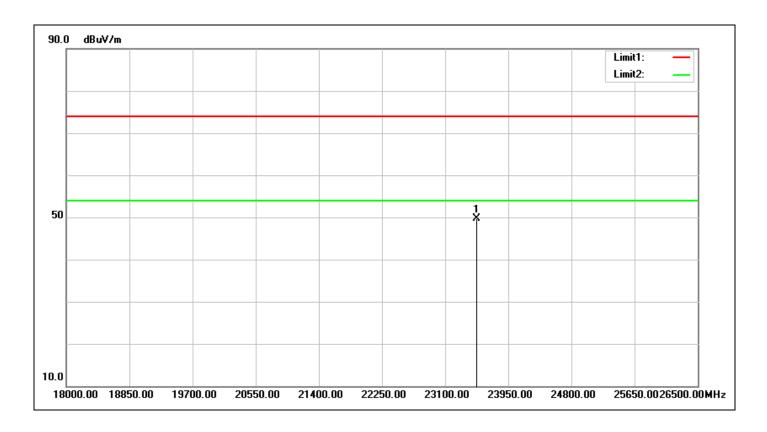
Test Mode: 1DH5-2402-TX

No	. Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	21340.500	31.79	17.64	49.43	74.00	-24.57	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:13:56

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

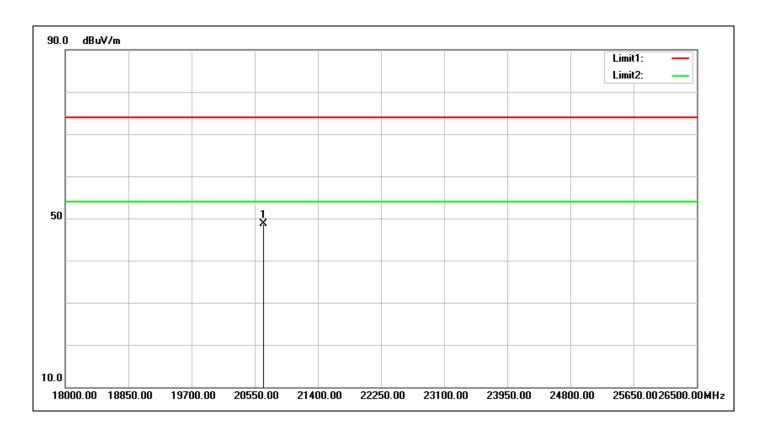
**Test Mode: 1DH5-2441-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	23525.000	32.39	17.27	49.66	74.00	-24.34	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:14:04

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

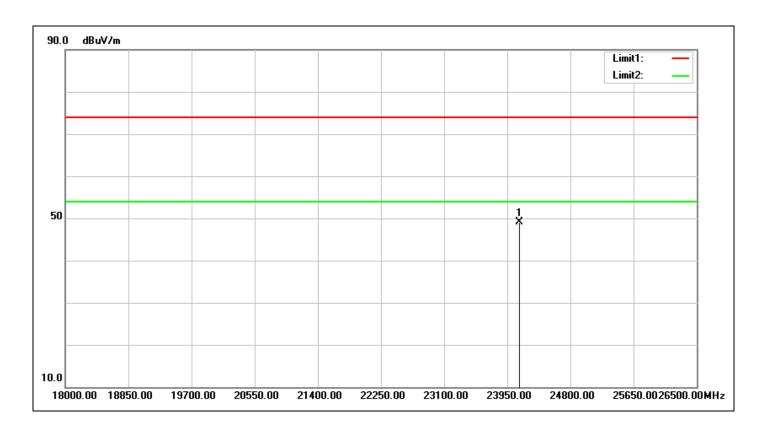
**Test Mode: 1DH5-2441-TX** 

1	No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
		(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
	1	20669.000	31.07	17.66	48.73	74.00	-25.27	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:14:15

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

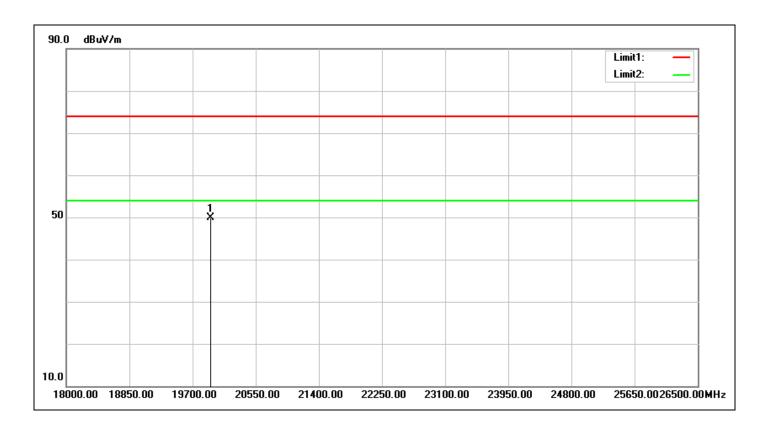
Test Mode: 1DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	24111.500	31.79	17.32	49.11	74.00	-24.89	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:14:24

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

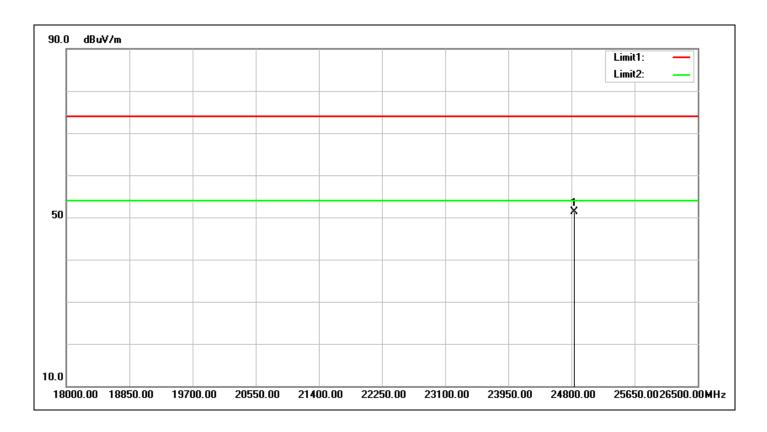
Test Mode: 1DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	19938.000	30.50	19.47	49.97	74.00	-24.03	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:15:15

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

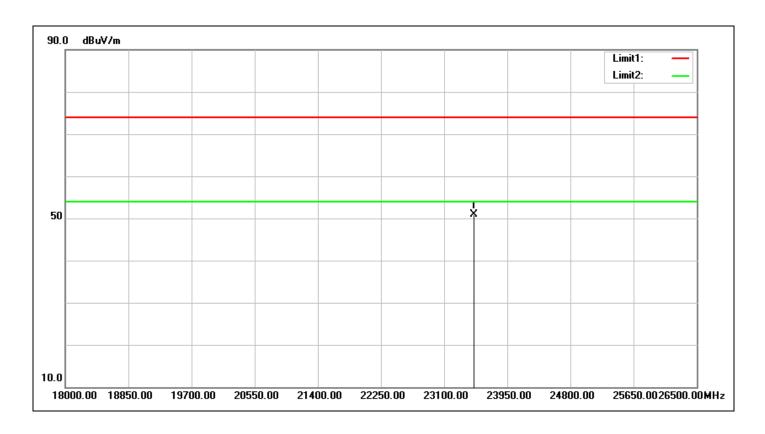
Test Mode: 3DH5-2402-TX

ľ	Vo.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
		(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
	1	24834.000	32.91	18.49	51.40	74.00	-22.60	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:15:28

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

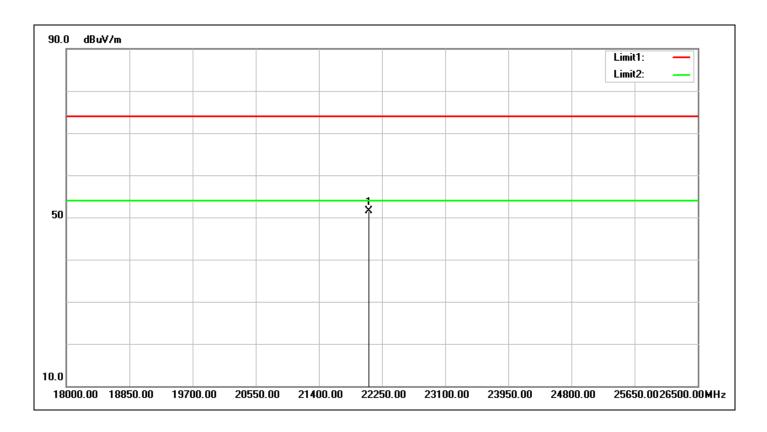
Test Mode: 3DH5-2402-TX

N	о.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
		(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
	1	23499.500	32.43	18.52	50.95	74.00	-23.05	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:15:41

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

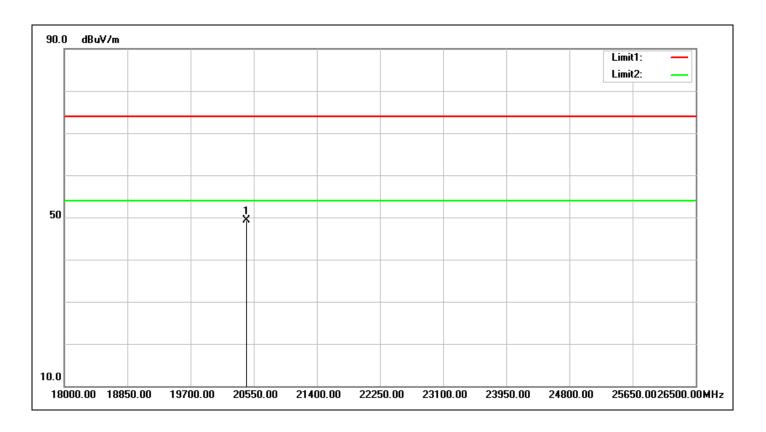
**Test Mode: 3DH5-2441-TX** 

No	. Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	22071.500	32.54	19.05	51.59	74.00	-22.41	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:15:50

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

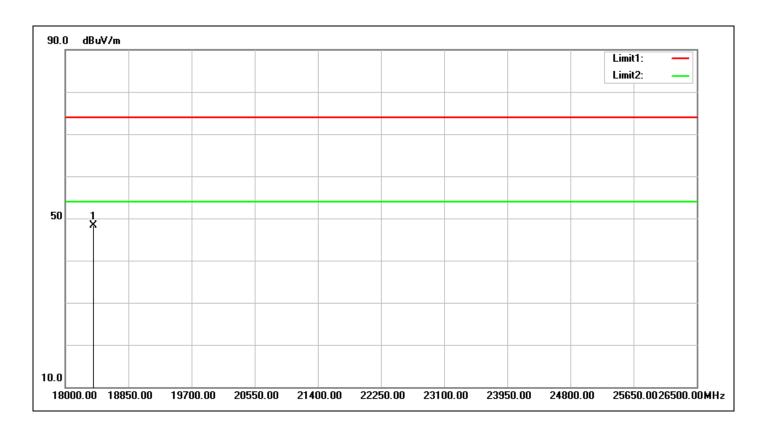
Test Mode: 3DH5-2441-TX

N	о.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
		(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
	1	20456.500	30.93	18.34	49.27	74.00	-24.73	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:16:03

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

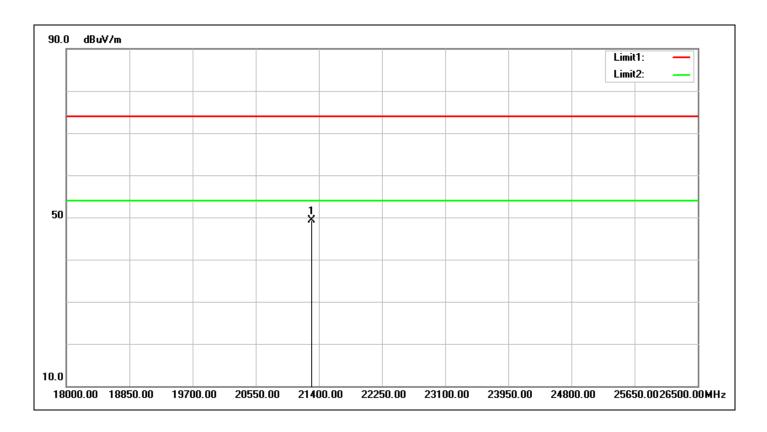
Test Mode: 3DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	18382.500	28.20	20.02	48.22	74.00	-25.78	peak			



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:16:12

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

Test Mode: 3DH5-2480-TX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21306.500	31.74	17.59	49.33	74.00	-24.67	peak			

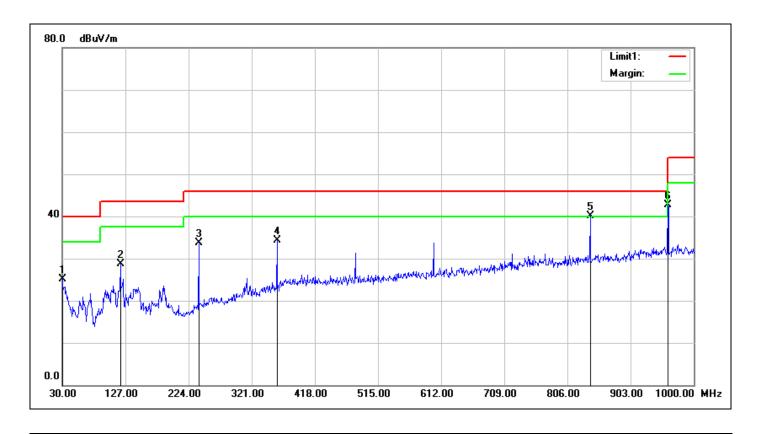
# Spurious Emissions, TX Mode, 30M-1G



## TUV Rheinland Taiwan Ltd.

#### 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:34:37

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.(°C)/Hum.(%): 20.2(°C)/65%

Model No.: Ink Pro Test Engineer: George Yang

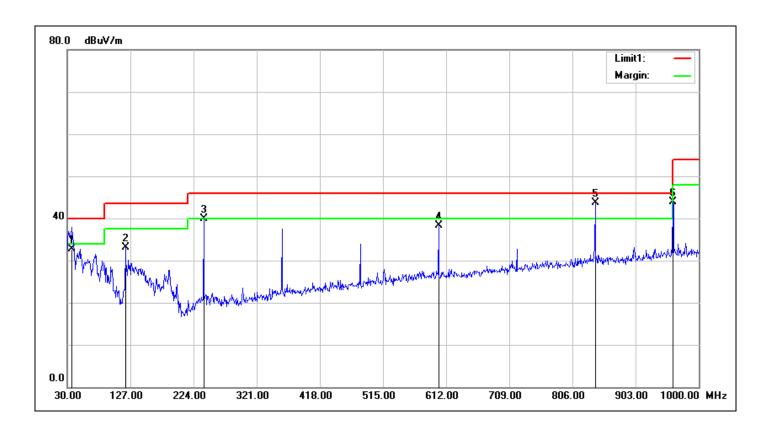
**Test Mode: 1DH5-2441-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	30.0000	-0.25	25.30	25.05	40.00	-14.95	QP	100	329	
2	119.2399	-7.50	36.13	28.63	43.50	-14.87	QP	100	87	
3	239.5200	-6.85	40.63	33.78	46.00	-12.22	QP	100	241	
4	359.8000	-3.16	37.47	34.31	46.00	-11.69	QP	100	52	
5	840.9199	3.54	36.55	40.09	46.00	-5.91	QP	100	55	
6	960.2300	5.54	37.22	42.76	54.00	-11.24	QP	100	47	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:35:41

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

**Test Mode: 1DH5-2441-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	36.7900	-4.08	36.88	32.80	40.00	-7.20	QP	100	195	
2	119.2400	-7.50	40.52	33.02	43.50	-10.48	QP	100	247	
3	239.5200	-6.85	46.73	39.88	46.00	-6.12	QP	100	294	
4	600.3600	0.08	38.27	38.35	46.00	-7.65	QP	100	198	
5	840.9200	3.54	40.19	43.73	46.00	-2.27	QP	100	280	
6	960.2300	5.54	38.40	43.94	54.00	-10.06	QP	100	116	

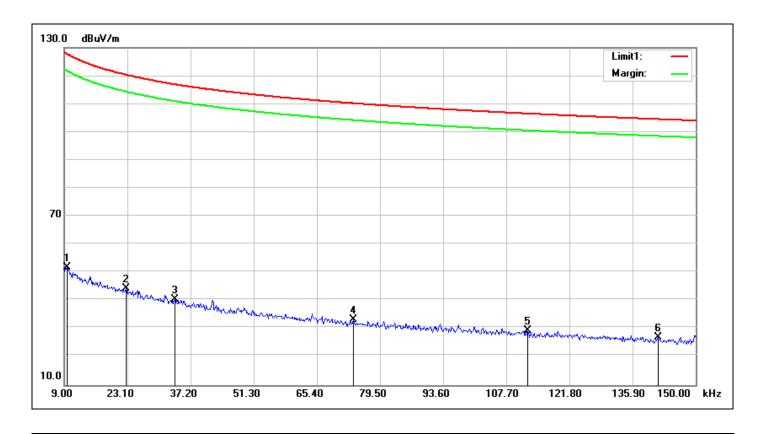
# Spurious Emissions, TX Mode, 9k-30M



## TUV Rheinland Taiwan Ltd.

#### 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738

Test Standard: NCC2.8\_9k-1G\_3m

Test item: Radiation Emission

**Applicant:** Adonit

**Product:** Bluetooth laser Pen

Model No.: Ink Pro

**Test Mode:** 1DH5-2441-TX

Remark:

Test Distance: 3m

Ant. Polarization:

Test Time: 2017/11/22 11:24:24

Test Rating: DC 5V

**Temp.**(°C)/**Hum.**(%): 20.2(°C)/65%

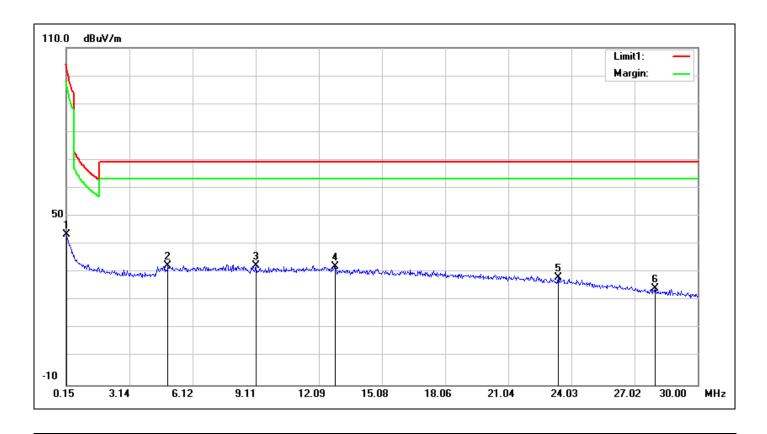
Test Engineer: George Yang

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	0.0097	19.83	31.98	51.81	127.66	-75.85	QP	100	5	
2	0.0228	20.06	24.23	44.29	120.28	-75.99	QP	100	191	
3	0.0336	20.00	20.51	40.51	116.93	-76.42	QP	100	315	
4	0.0735	19.29	13.92	33.21	110.18	-76.97	QP	100	50	
5	0.1122	19.12	10.15	29.27	106.52	-77.25	QP	100	240	
6	0.1415	19.09	8.01	27.10	104.52	-77.42	QP	100	360	



# 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance:

Test Standard: NCC2.8\_9k-1G\_3m Ant. Polarization:

Test item: Radiation Emission Test Time: 2017/11/22 11:27:33

3m

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

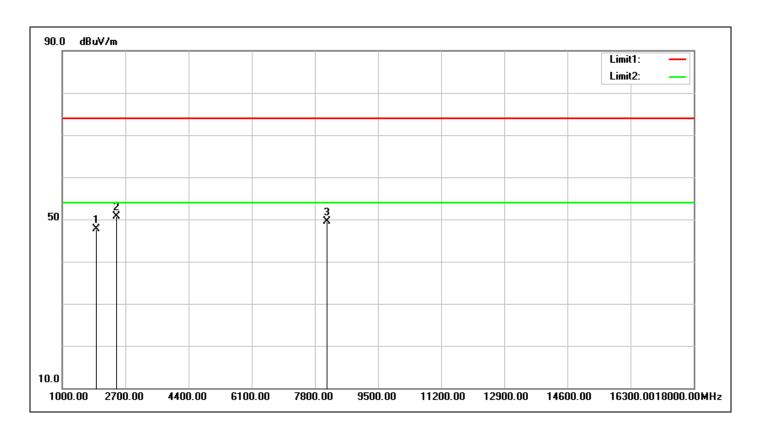
**Test Mode: 1DH5-2441-TX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	0.1499	19.08	24.51	43.59	104.02	-60.43	QP	100	26	
2	4.9558	19.73	12.82	32.55	69.50	-36.95	QP	100	55	
3	9.1049	20.14	12.22	32.36	69.50	-37.14	QP	100	205	
4	12.8660	20.73	11.46	32.19	69.50	-37.31	QP	100	227	
5	23.4031	22.21	6.07	28.28	69.50	-41.22	QP	100	219	
6	28.0000	22.52	1.92	24.44	69.50	-45.06	QP	100	254	



# 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:02:59

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

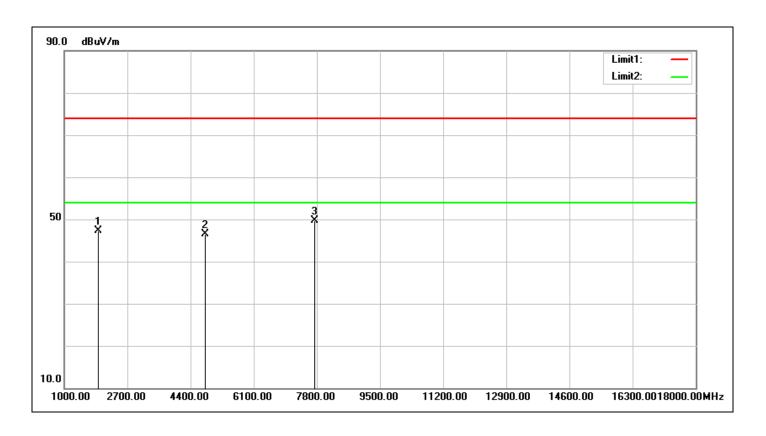
Test Mode: 1DH5-2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-5.93	53.54	47.61	74.00	-26.39	peak	100	2	
2	2462.000	-3.98	54.71	50.73	74.00	-23.27	peak	100	27	
3	8123.000	3.68	45.77	49.45	74.00	-24.55	peak	100	284	



## 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:04:02

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

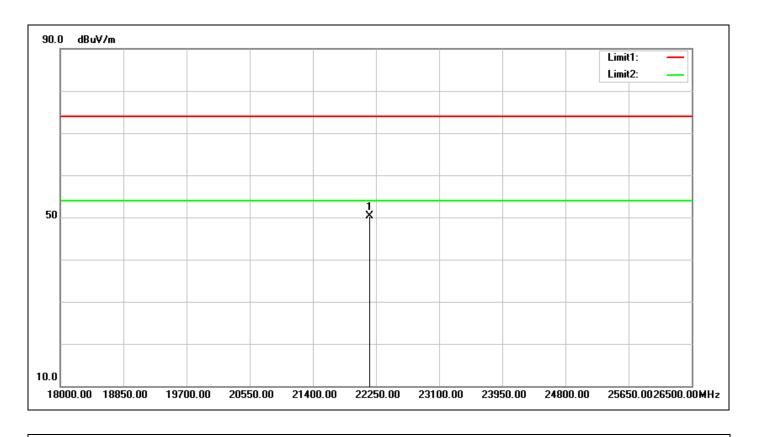
Test Mode: 1DH5-2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	1918.000	-5.93	53.17	47.24	74.00	-26.76	peak	100	341	
2	4791.000	2.30	44.30	46.60	74.00	-27.40	peak	100	192	
3	7732.000	3.59	46.21	49.80	74.00	-24.20	peak	100	181	



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Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:16:29

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen  $Temp.(^{\circ}C)/Hum.(^{\circ}C): 20.2(^{\circ}C)/65\%$ 

Model No.: Ink Pro Test Engineer: George Yang

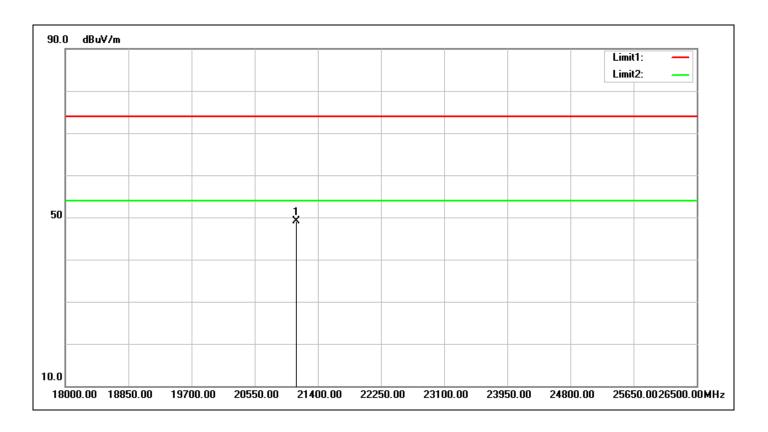
Test Mode: 1DH5-2441-RX

1	No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
		(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
	1	22165.000	32.47	17.83	50.30	74.00	-23.70	peak			



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Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Above 1G PEAK Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:16:37

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

**Test Mode: 1DH5-2441-RX** 

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	21111.000	31.45	17.68	49.13	74.00	-24.87	peak			

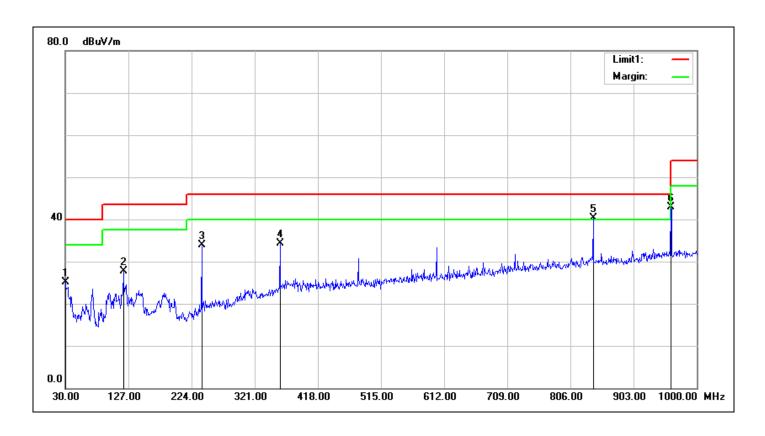
# Spurious Emissions, RX Mode, 30M-1G



## TUV Rheinland Taiwan Ltd.

#### 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Horizontal

Test item: Radiation Emission Test Time: 2017/11/22 11:39:38

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

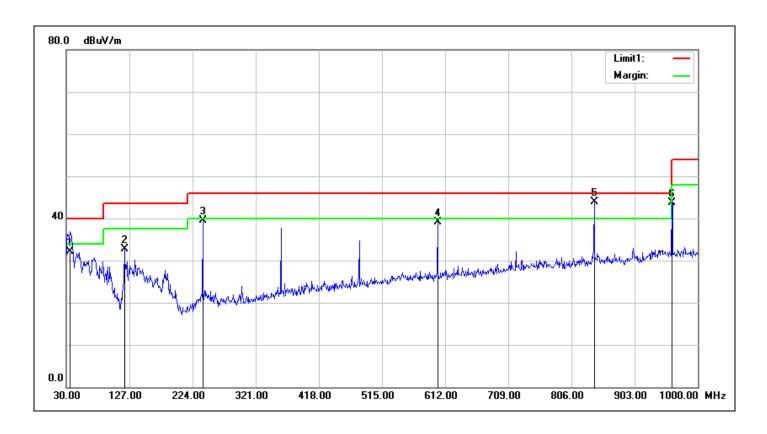
Test Mode: 1DH5-2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	30.0000	-0.25	25.43	25.18	40.00	-14.82	QP	100	162	
2	119.2399	-7.50	35.12	27.62	43.50	-15.88	QP	100	249	
3	239.5200	-6.85	40.71	33.86	46.00	-12.14	QP	100	249	
4	359.8000	-3.16	37.43	34.27	46.00	-11.73	QP	100	69	
5	840.9199	3.54	36.74	40.28	46.00	-5.72	QP	100	52	
6	960.2300	5.54	37.45	42.99	54.00	-11.01	QP	100	52	



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Service No.: 114070738 Test Distance: 3m

Test Standard: NCC Class B 3M Radiation Ant. Polarization: Vertical

Test item: Radiation Emission Test Time: 2017/11/22 11:40:42

Applicant: Adonit Test Rating: DC 5V

Product: Bluetooth laser Pen Temp.( $^{\circ}$ C)/Hum.( $^{\circ}$ ): 20.2( $^{\circ}$ C)/65%

Model No.: Ink Pro Test Engineer: George Yang

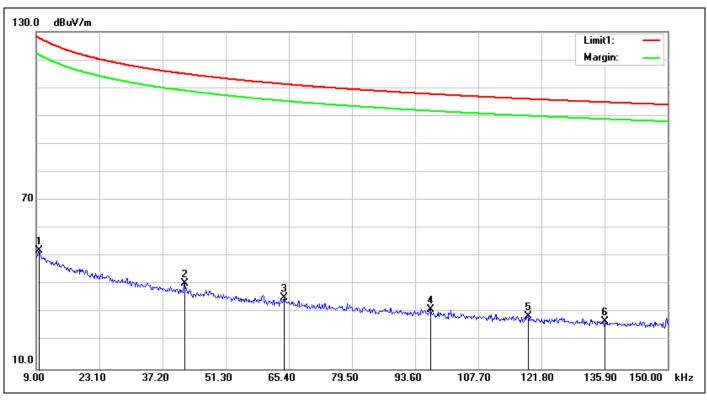
Test Mode: 1DH5-2441-RX

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	35.8200	-3.55	35.65	32.10	40.00	-7.90	QP	100	176	
2	119.2400	-7.50	40.17	32.67	43.50	-10.83	QP	100	149	
3	239.5200	-6.85	46.26	39.41	46.00	-6.59	QP	100	288	
4	600.3600	0.08	38.98	39.06	46.00	-6.94	QP	100	201	
5	840.9200	3.54	40.46	44.00	46.00	-2.00	QP	100	285	
6	960.2300	5.54	38.12	43.66	54.00	-10.34	QP	100	252	



# TUV Rheinland Taiwan Ltd. 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



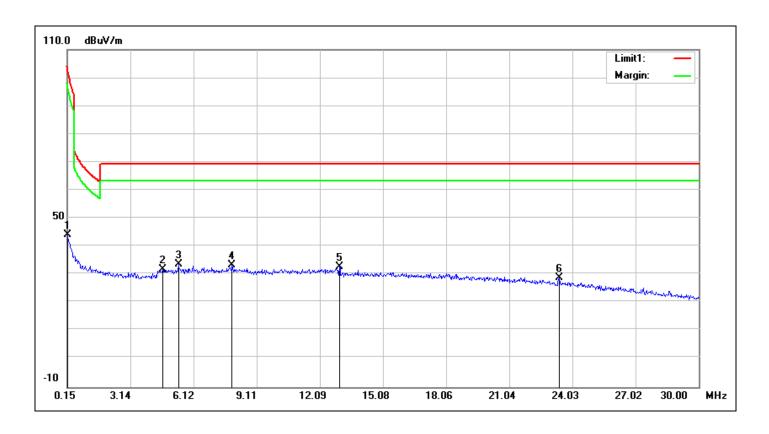
Service No.:	114070738	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	<b>Radiation Emission</b>	Test Time:	2017/11/22 11:25:27
Applicant:	Adonit	Test Rating:	DC 5V
<b>Product:</b>	Bluetooth laser Pen	<b>Temp.</b> (°ℂ)/ <b>Hum.</b> (%):	20.2(°C)/65%
Model No.:	Ink Pro	Test Engineer:	George Yang
Test Mode:	1DH5-2441-RX		

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	( • )	
1	0.0096	19.80	32.24	52.04	127.75	-75.71	QP	100	4	
2	0.0420	19.71	20.88	40.59	115.01	-74.42	QP	100	177	
3	0.0644	19.34	15.92	35.26	111.32	-76.06	QP	100	228	
4	0.0971	19.15	12.07	31.22	107.77	-76.55	QP	100	200	
5	0.1186	19.11	9.58	28.69	106.05	-77.36	QP	100	236	
6	0.1360	19.09	7.89	26.98	104.86	-77.88	QP	100	105	



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Service No.: 114070738

Test Standard: NCC2.8\_9k-1G\_3m

Test item: Radiation Emission

**Applicant:** Adonit

Product: Bluetooth laser Pen

Model No.: Ink Pro

**Test Mode:** 1DH5-2441-RX

Remark:

Test Distance:	3m
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Ant. Polarization:

Test Time: 2017/11/22 11:28:36

Test Rating: DC 5V

Temp.(°C)/Hum.(%): 20.2(°C)/65%

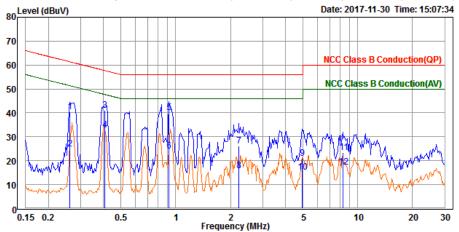
Test Engineer: George Yang

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(•)	
1	0.1799	19.06	25.21	44.27	102.47	-58.20	QP	100	360	
2	4.6574	19.54	12.29	31.83	69.50	-37.67	QP	100	359	
3	5.4036	19.79	13.73	33.52	69.50	-35.98	QP	100	168	
4	7.9409	20.04	13.33	33.37	69.50	-36.13	QP	100	160	
5	13.0153	20.75	12.02	32.77	69.50	-36.73	QP	100	138	
6	23.4032	22.21	6.63	28.84	69.50	-40.66	QP	100	360	

# Mains Spurious Emissions







Trace: 1

Site : Conduction room

Condition : NCC Class B Conduction(QP) line1

Test Engineer: Geroge Yang

Applicant : Adonit

Product : Bluetooth laser Pen

Model No. : Adonit Ink Pro

Test Rating : DC5V

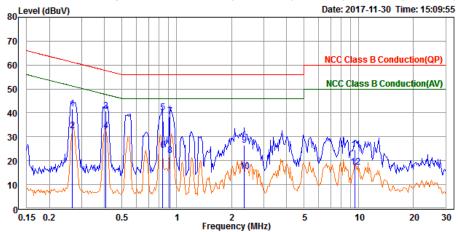
Tmp/Hum : 24.1°C/44 %

Memo :

		Read			Limit	0ver	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.262	30.71	9.65	40.36	61.38	-21.02	QP
2	0.262	15.29	9.65	24.94	51.38	-26.44	Average
3	0.409	31.50	9.65	41.15	57.66	-16.51	QP
4	0.409	23.25	9.65	32.90	47.66	-14.76	Average
5	0.916	30.53	9.65	40.18	56.00	-15.82	QP
6	0.916	14.27	9.65	23.92	46.00	-22.08	Average
7	2.218	16.47	9.66	26.13	56.00	-29.87	QP
8	2.218	6.03	9.66	15.69	46.00	-30.31	Average
9	4.963	11.32	9.71	21.03	56.00	-34.97	QP
10	4.963	5.58	9.71	15.29	46.00	-30.71	Average
11	8.322	13.71	9.75	23.46	60.00	-36.54	QP
12	8.322	7.53	9.75	17.28	50.00	-32.72	Average







Trace: 1

Site : Conduction room

Condition : NCC Class B Conduction(QP) neutral

Test Engineer: Geroge Yang

Applicant : Adonit

Product : Bluetooth laser Pen Model No. : Adonit Ink Pro

Model No. : Adonit Ink P Test Rating : DC5V

Tmp/Hum : 24.1°C/44 %

Memo :

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.267	32.03	9.66	41.69	61.21	-19.52	QP
2	0.267	22.76	9.66	32.42	51.21	-18.79	Average
3	0.409	31.25	9.65	40.90	57.66	-16.76	QP
4	0.409	22.83	9.65	32.48	47.66	-15.18	Average
5	0.837	30.44	9.66	40.10	56.00	-15.90	QP
6	0.837	14.69	9.66	24.35	46.00	-21.65	Average
7	0.916	28.86	9.66	38.52	56.00	-17.48	QP
8	0.916	12.70	9.66	22.36	46.00	-23.64	Average
9	2.355	16.85	9.68	26.53	56.00	-29.47	QP
10	2.355	5.83	9.68	15.51	46.00	-30.49	Average
11	9.564	14.76	9.78	24.54	60.00	-35.46	QP
12	9.564	7.42	9.78	17.20	50.00	-32.80	Average