

Test Report No.10052882 001

Appendix D: Radiated Spurious Emission Data

(File: 10052882AppendixD)

Contents

Spurious Emissions, Receiving Mode, 1-12.75G	2
Spurious Emissions, Receiving Mode, 30M-1G.....	6
Spurious Emissions, TX Mode, 1-12.75G.....	10
Spurious Emissions, TX Mode, 30M-1G	14

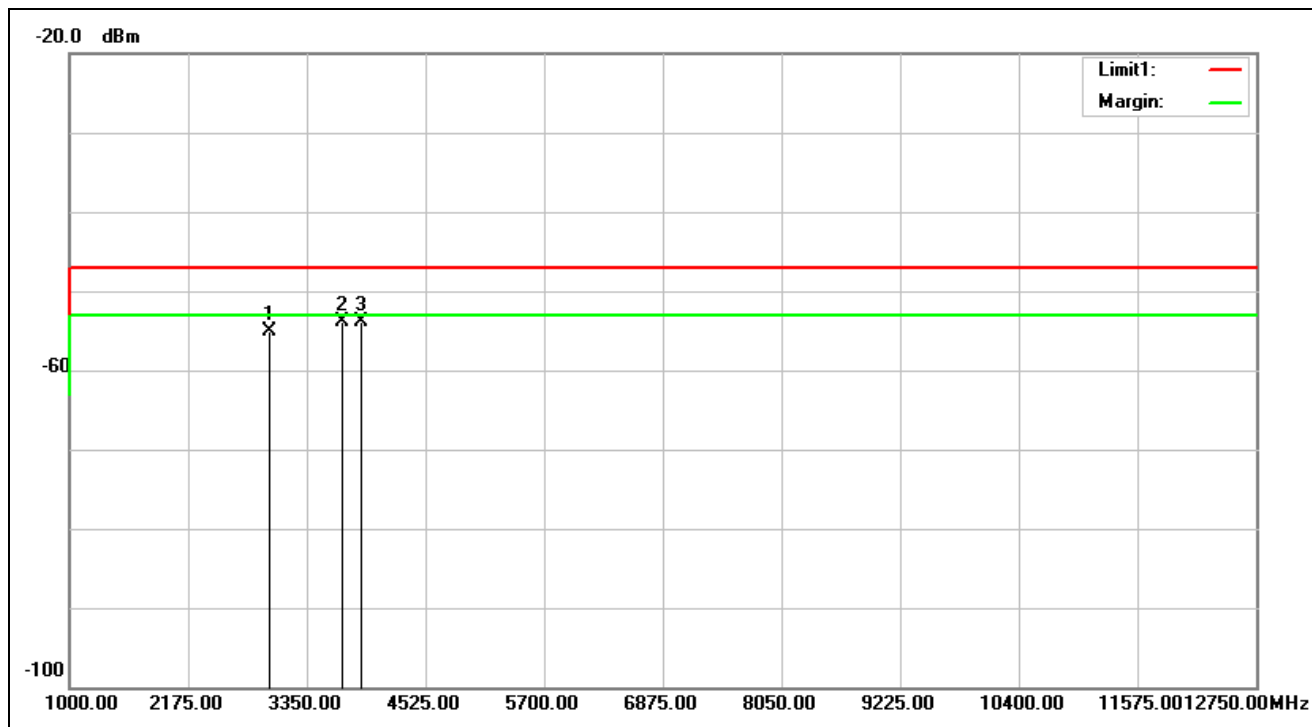
Spurious Emissions, Receiving Mode, 1-12.75G



TUV Taiwan

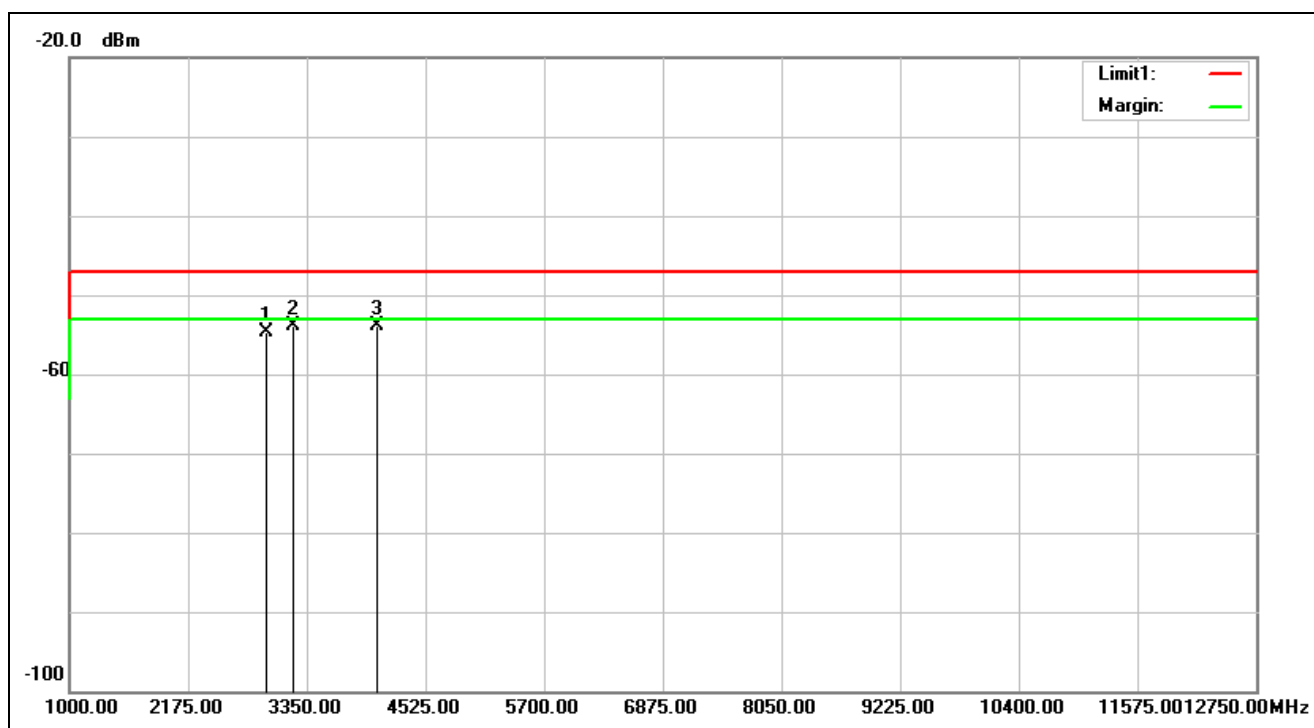
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



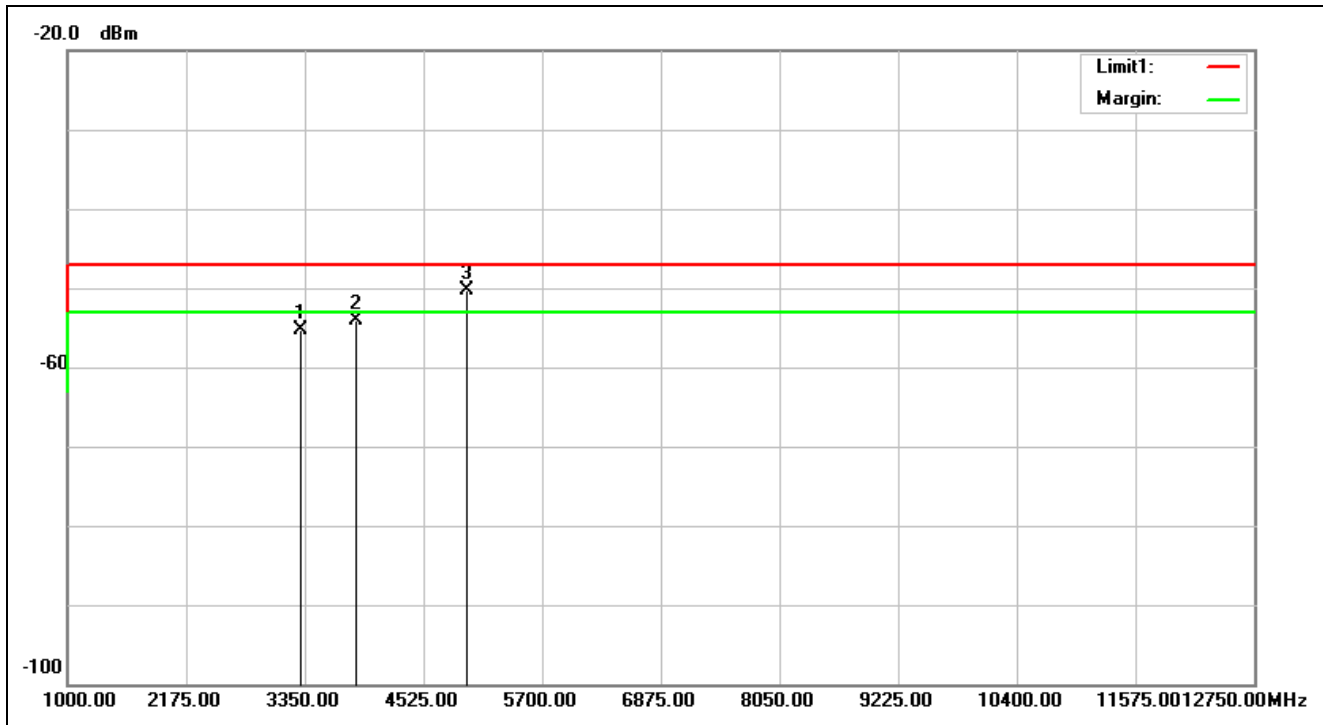
Service No.:	114039655-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/11 16:14:22
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2974.000	-0.29	-54.89	-55.18	-47.00	-8.18	peak	100	308	
2	3702.500	1.79	-55.59	-53.80	-47.00	-6.80	peak	100	100	
3	3890.500	2.14	-56.04	-53.90	-47.00	-6.90	peak	100	86	



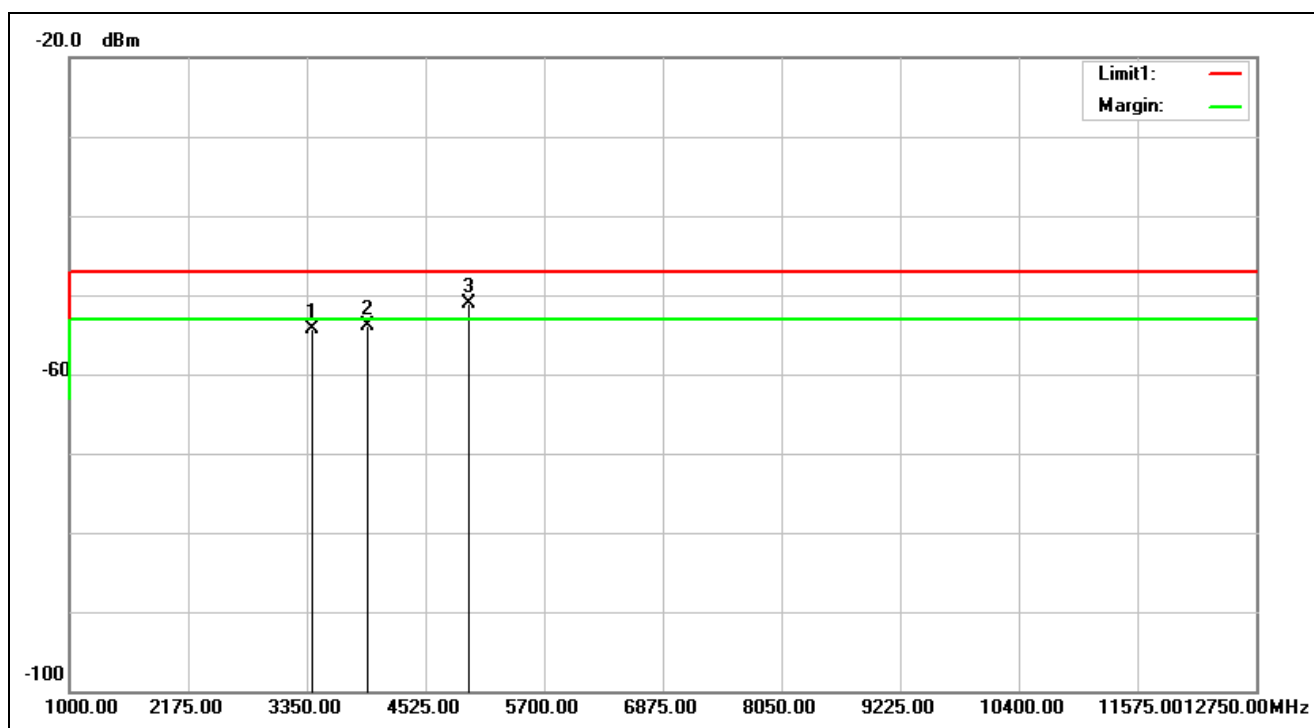
Service No.:	114039655-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/11 16:15:24
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2950.500	-0.13	-54.59	-54.72	-47.00	-7.72	peak	100	31	
2	3209.000	1.02	-54.89	-53.87	-47.00	-6.87	peak	100	182	
3	4043.250	2.40	-56.26	-53.86	-47.00	-6.86	peak	100	103	



Service No.:	114039655-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/11 16:18:00
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3303.000	0.78	-56.14	-55.36	-47.00	-8.36	peak	100	4	
2	3855.250	2.09	-56.27	-54.18	-47.00	-7.18	peak	100	302	
3	4959.750	4.86	-55.15	-50.29	-47.00	-3.29	rms	100	142	



Service No.:	114039655-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/11 16:19:03
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3408.750	1.94	-56.21	-54.27	-47.00	-7.27	peak	100	318	
2	3949.250	2.23	-56.03	-53.80	-47.00	-6.80	peak	100	38	
3	4959.750	4.58	-55.58	-51.00	-47.00	-4.00	rms	100	199	

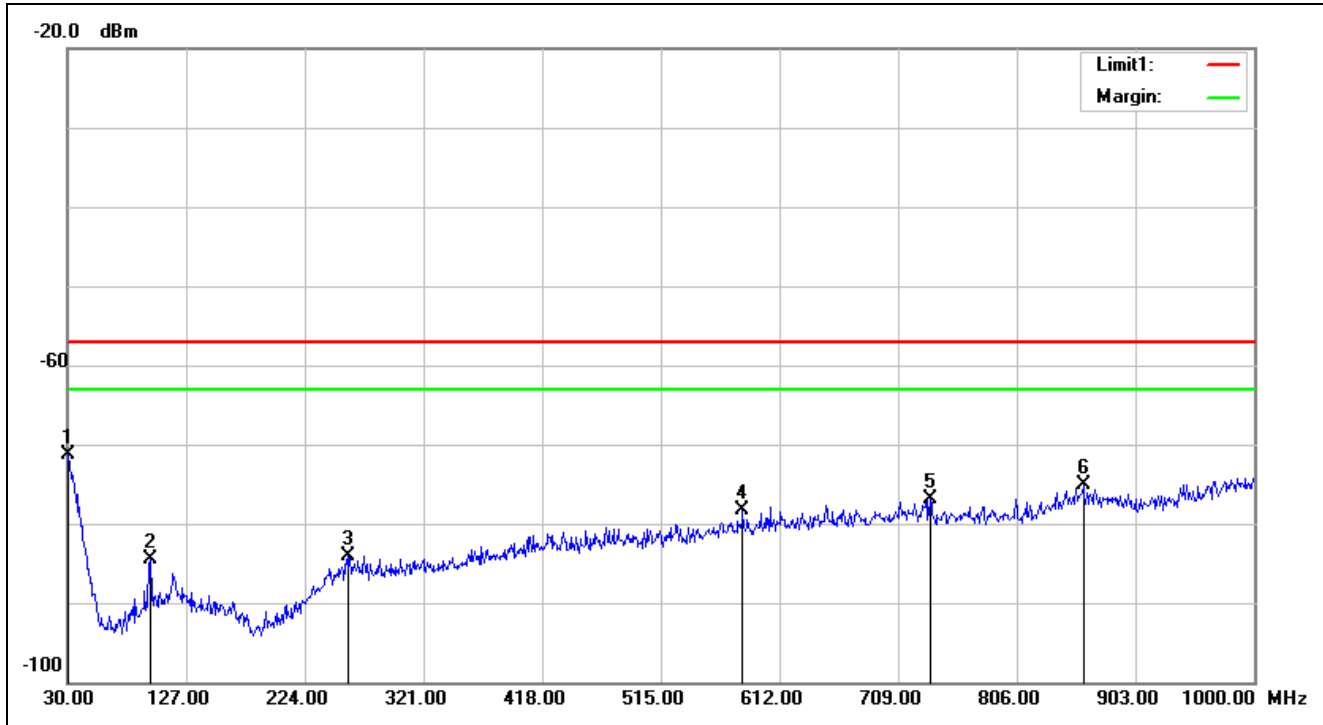
Spurious Emissions, Receiving Mode, 30M-1G



TUV Taiwan

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

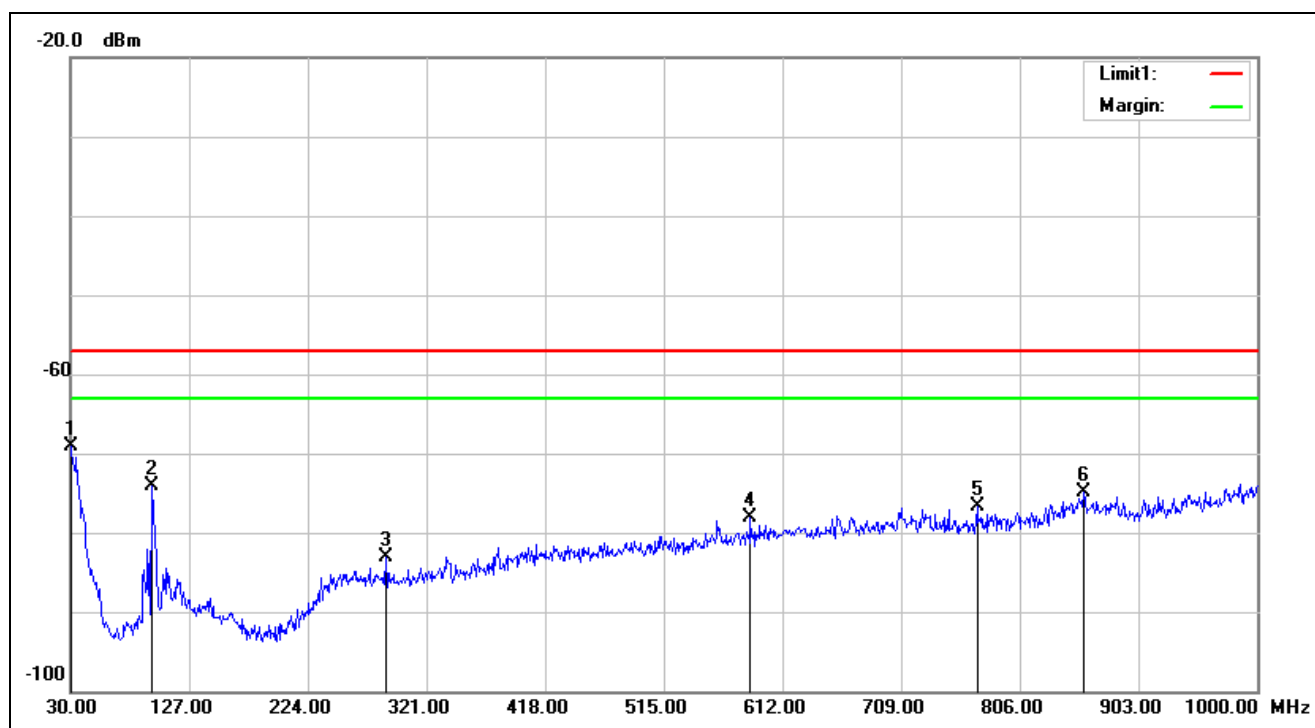
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/11 18:57:58
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-RX		
Remark:			

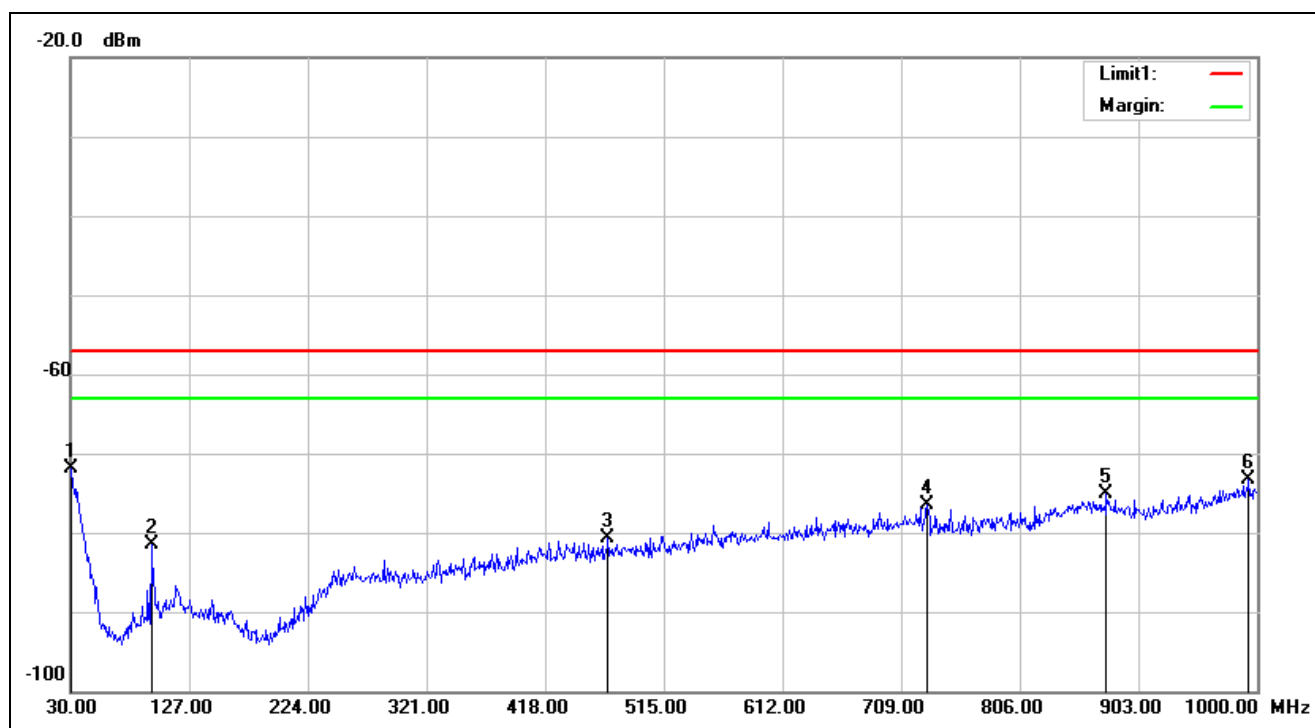
No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9699	8.40	-79.74	-71.34	-57.00	-14.34	peak	100	40	
2	97.9000	-9.13	-75.44	-84.57	-57.00	-27.57	peak	100	120	
3	259.8899	-3.74	-80.39	-84.13	-57.00	-27.13	peak	100	346	
4	581.9299	0.10	-78.43	-78.33	-57.00	-21.33	peak	100	317	
5	735.1900	1.50	-78.37	-76.87	-57.00	-19.87	peak	100	360	
6	860.3200	4.17	-79.28	-75.11	-57.00	-18.11	peak	100	155	

Spurious Emissions, Receiving Mode, 30M-1G



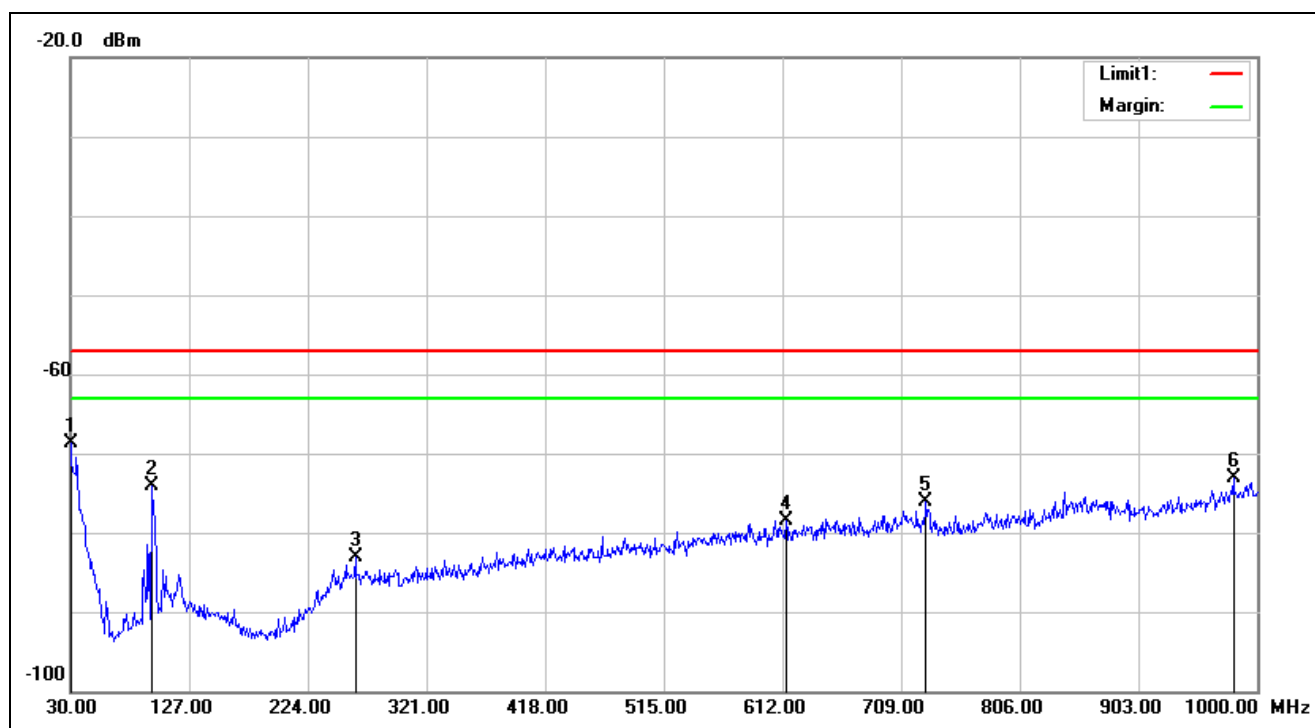
Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/11 18:59:02
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	9.02	-78.09	-69.07	-57.00	-12.07	peak	100	235	
2	95.9600	-9.36	-64.78	-74.14	-57.00	-17.14	peak	100	40	
3	288.0200	-3.93	-79.25	-83.18	-57.00	-26.18	peak	100	259	
4	585.8100	0.16	-78.27	-78.11	-57.00	-21.11	peak	100	171	
5	771.0800	1.71	-78.47	-76.76	-57.00	-19.76	peak	100	56	
6	858.3800	4.13	-79.00	-74.87	-57.00	-17.87	peak	100	128	



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/11 19:00:39
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9699	8.40	-80.29	-71.89	-57.00	-14.89	peak	100	107	
2	95.9599	-9.36	-72.13	-81.49	-57.00	-24.49	peak	100	91	
3	469.4100	-1.39	-79.32	-80.71	-57.00	-23.71	peak	100	131	
4	730.3400	1.59	-78.04	-76.45	-57.00	-19.45	peak	100	0	
5	876.8099	4.05	-79.16	-75.11	-57.00	-18.11	peak	100	346	
6	993.2100	5.60	-78.84	-73.24	-57.00	-16.24	peak	100	325	



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/11 19:01:42
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	9.02	-77.72	-68.70	-57.00	-11.70	peak	100	349	
2	95.9600	-9.36	-64.78	-74.14	-57.00	-17.14	peak	100	38	
3	262.8000	-3.85	-79.34	-83.19	-57.00	-26.19	peak	100	62	
4	614.9099	0.48	-79.01	-78.53	-57.00	-21.53	peak	100	153	
5	729.3700	1.61	-77.72	-76.11	-57.00	-19.11	peak	100	86	
6	980.6000	5.82	-79.01	-73.19	-57.00	-16.19	peak	100	163	

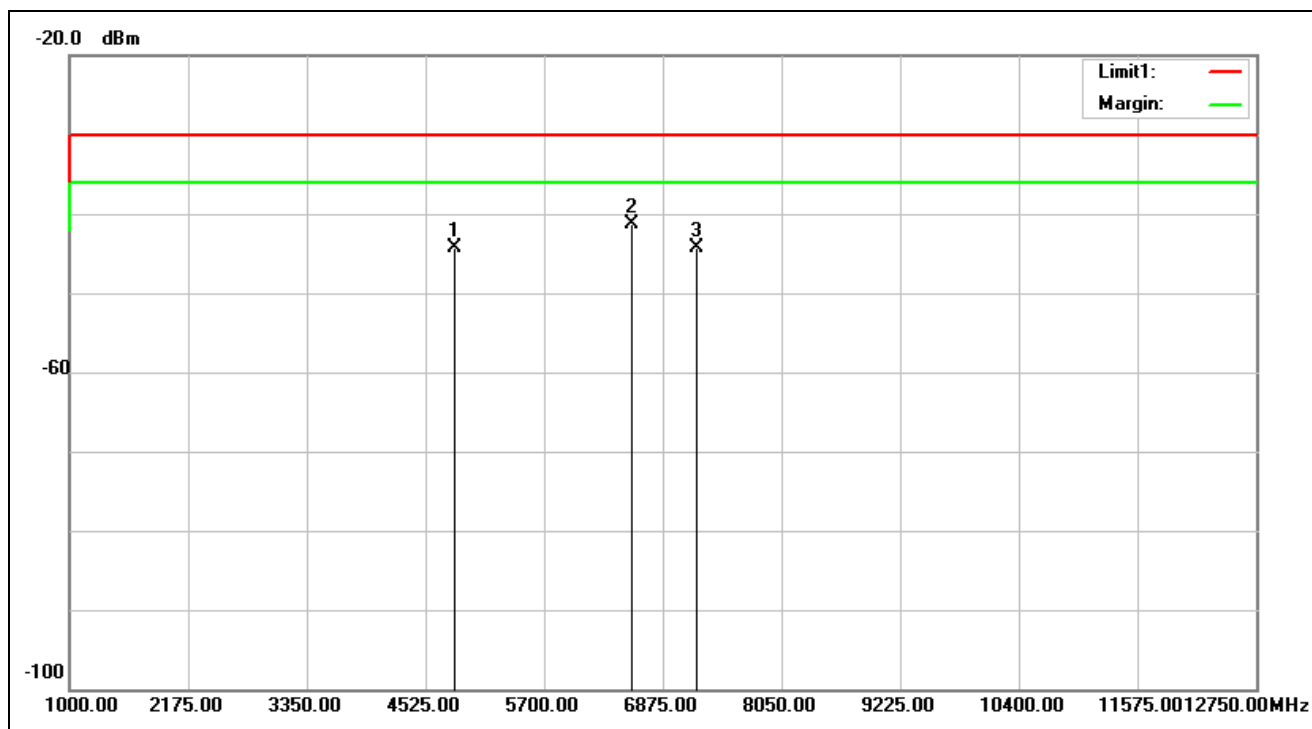
Spurious Emissions, TX Mode, 1-12.75G



TUV Taiwan

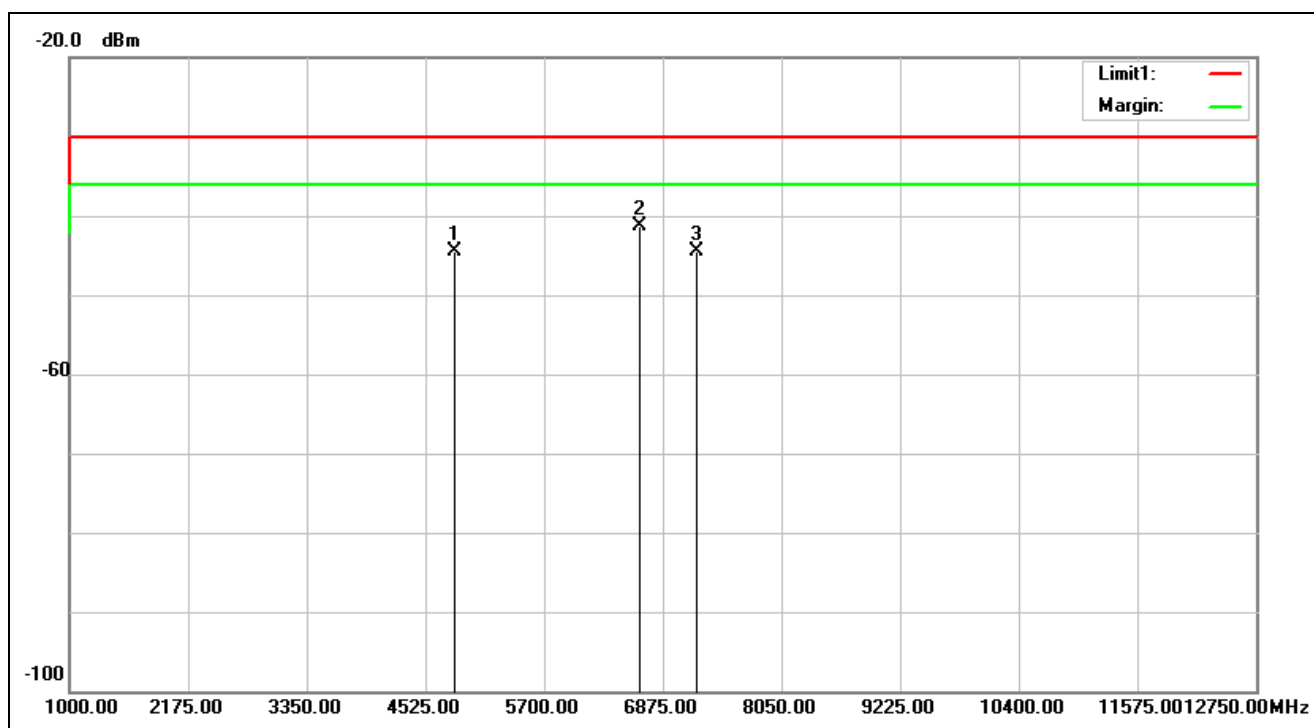
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



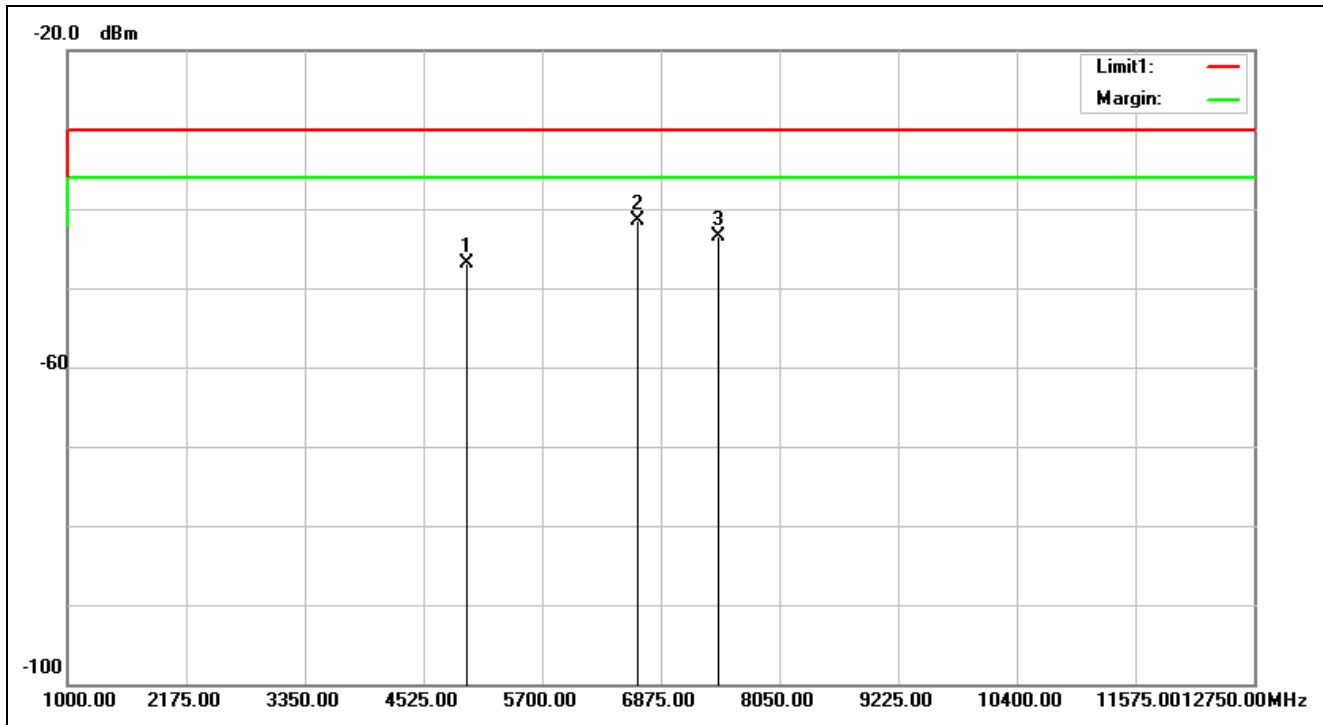
Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/3 16:53:57
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.54	-54.80	-44.26	-30.00	-14.26	peak		0	
2	6569.500	20.02	-61.30	-41.28	-30.00	-11.28	peak	100	33	
3	7206.000	18.67	-62.93	-44.26	-30.00	-14.26	peak		0	



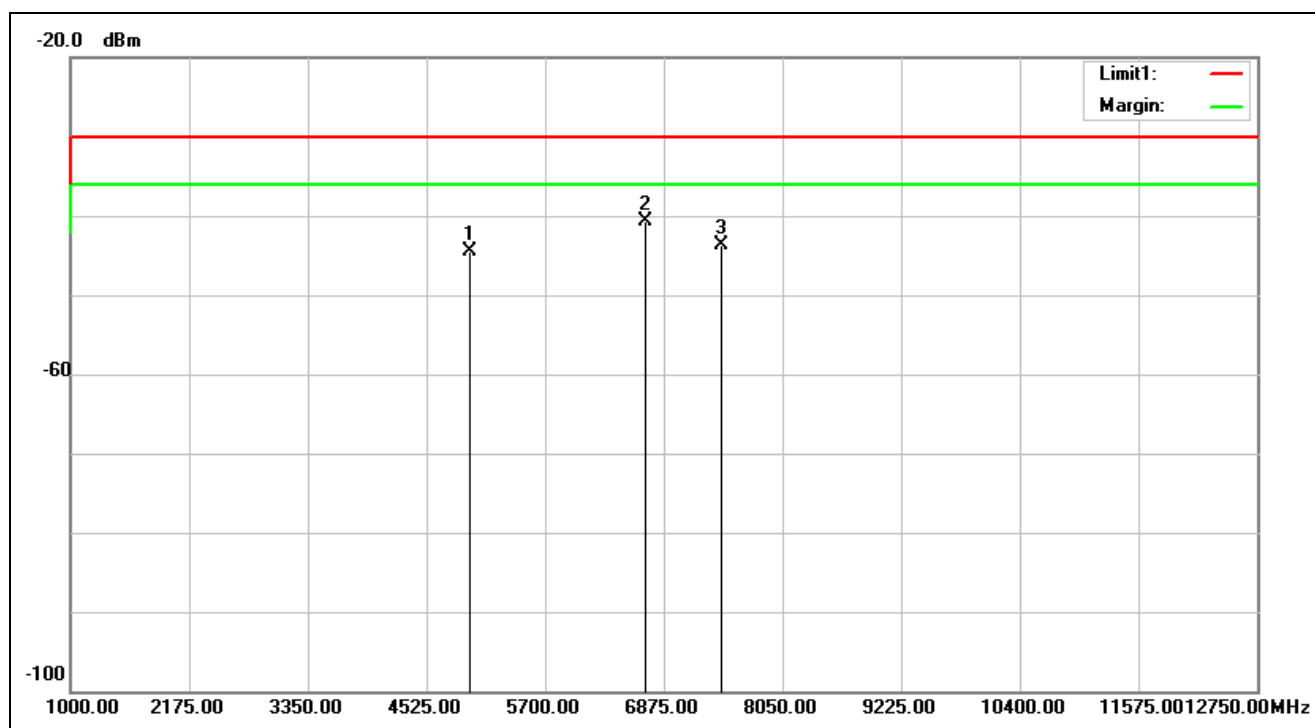
Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/3 16:54:59
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.63	-55.14	-44.51	-30.00	-14.51	peak			
2	6651.750	19.81	-61.01	-41.20	-30.00	-11.20	peak	100	341	
3	7206.000	18.66	-63.23	-44.57	-30.00	-14.57	peak			



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/3 16:59:07
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%):	23.1(°C)/59%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.78	-57.74	-46.96	-30.00	-16.96	peak			
2	6651.750	19.63	-61.19	-41.56	-30.00	-11.56	peak	100	8	
3	7440.000	19.48	-62.89	-43.41	-30.00	-13.41	peak			



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/3 17:00:10
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	23.1(°C)/59%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.82	-55.28	-44.46	-30.00	-14.46	peak	100	280	
2	6698.750	19.58	-60.18	-40.60	-30.00	-10.60	peak	100	241	
3	7440.000	19.34	-62.97	-43.63	-30.00	-13.63	peak			

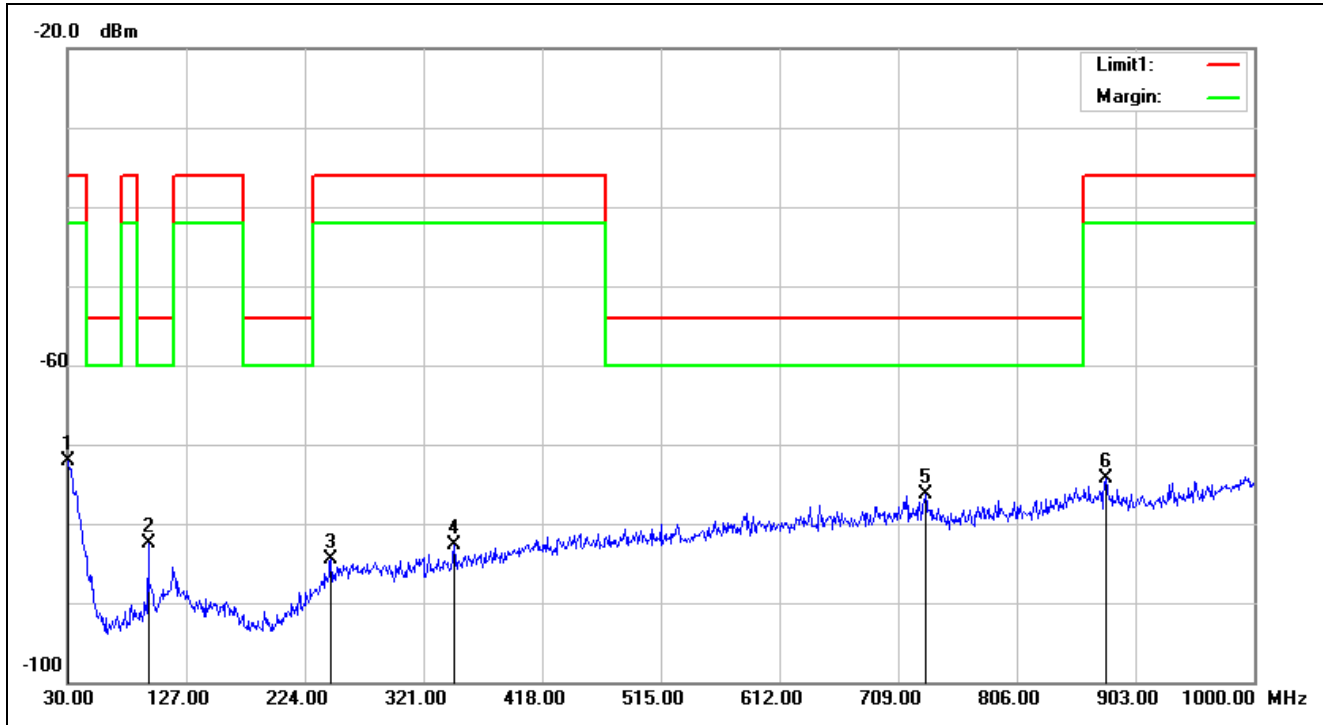
Spurious Emissions, TX Mode, 30M-1G



TUV Taiwan

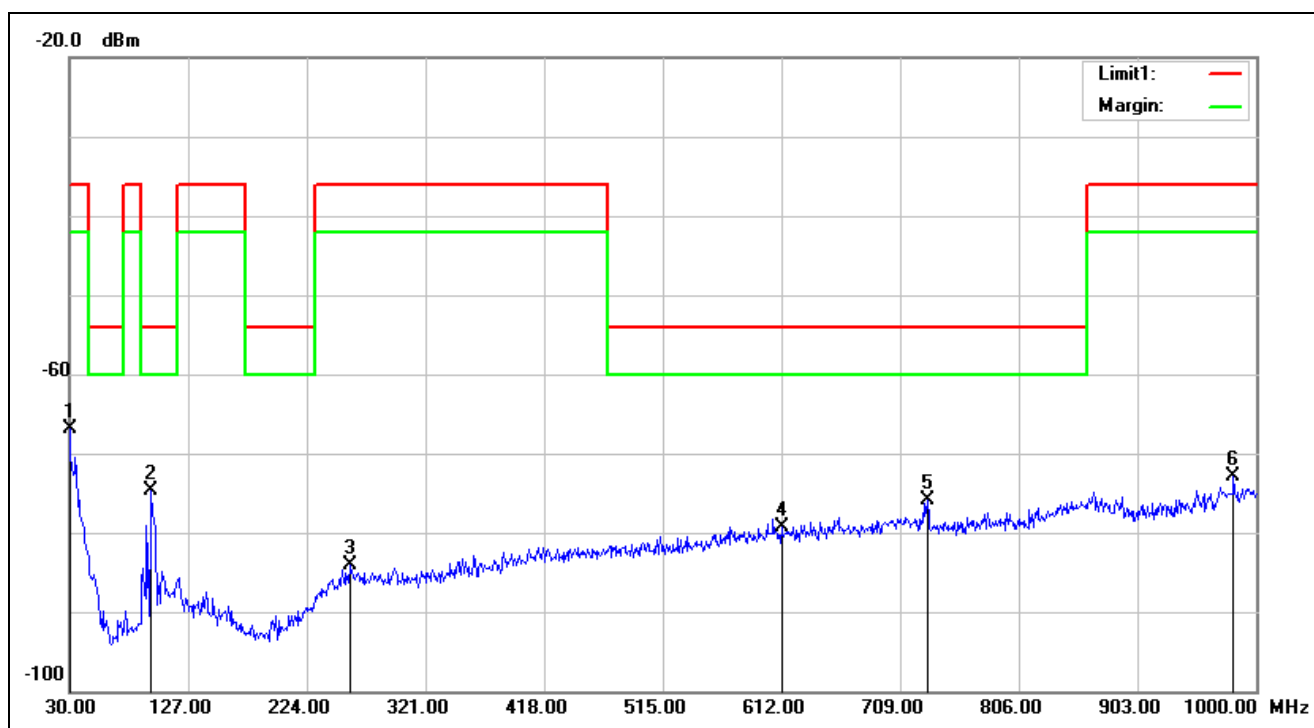
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



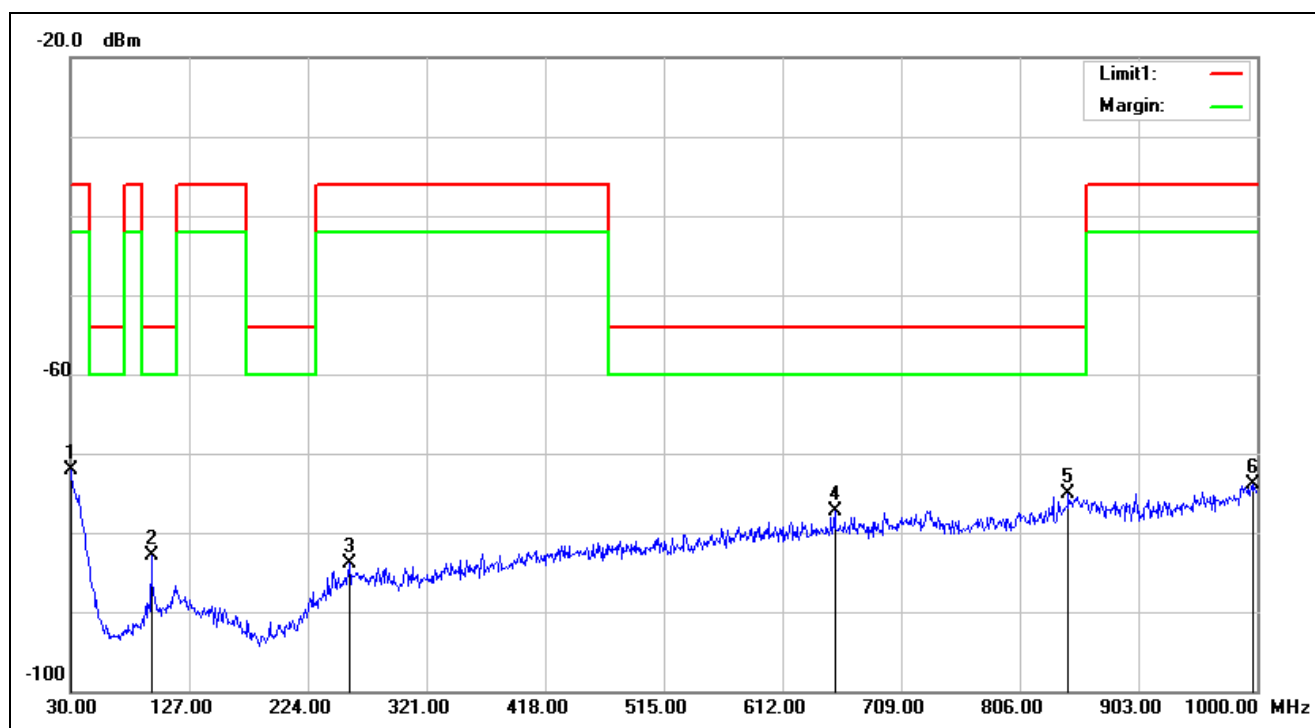
Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/11 18:51:20
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	9.02	-81.10	-72.08	-36.00	-36.08	peak	100	359	
2	95.9599	-9.36	-73.19	-82.55	-54.00	-28.55	peak	100	296	
3	245.3400	-5.16	-79.32	-84.48	-36.00	-48.48	peak	100	274	
4	346.2200	-3.28	-79.36	-82.64	-36.00	-46.64	peak	100	1	
5	731.3099	1.57	-77.92	-76.35	-54.00	-22.35	peak	100	64	
6	878.7500	4.05	-78.28	-74.23	-36.00	-38.23	peak	100	59	



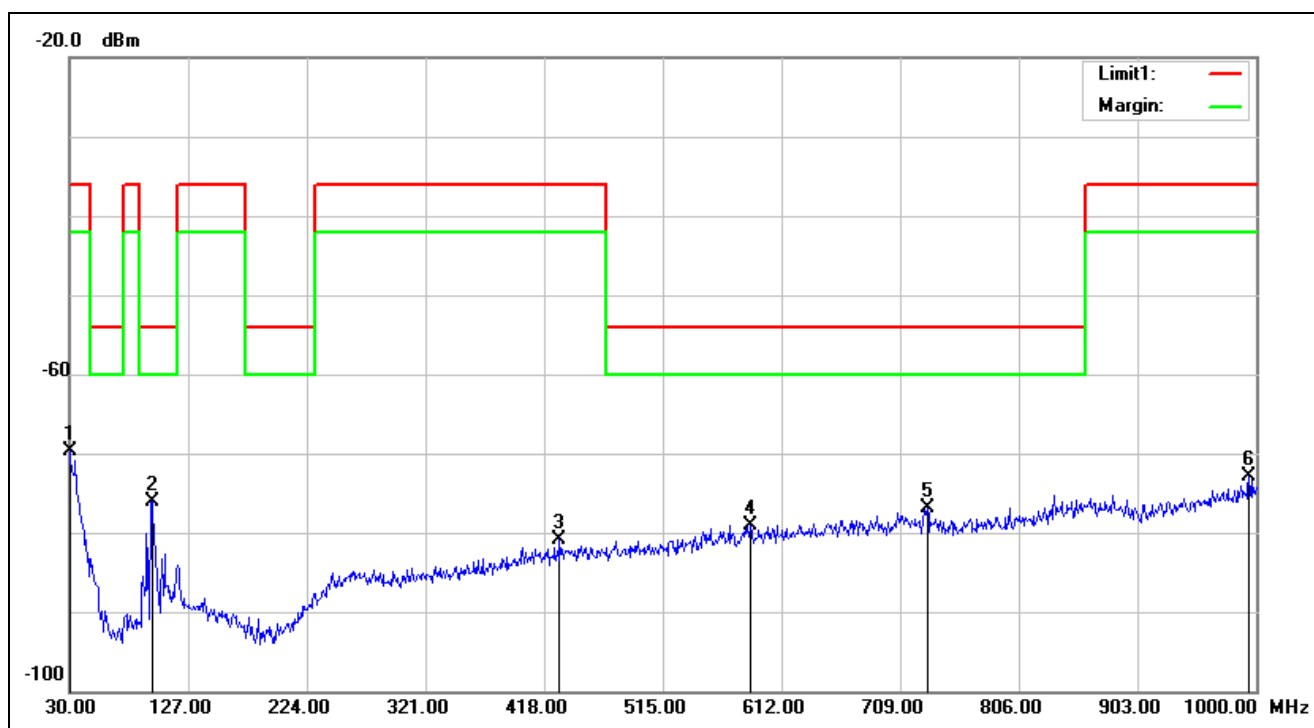
Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/11 18:52:23
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	9.02	-75.84	-66.82	-36.00	-30.82	peak	100	43	
2	96.9300	-9.25	-65.48	-74.73	-54.00	-20.73	peak	100	29	
3	258.9200	-3.84	-80.18	-84.02	-36.00	-48.02	peak	100	328	
4	612.0000	0.46	-79.75	-79.29	-54.00	-25.29	peak	100	123	
5	731.3100	1.58	-77.48	-75.90	-54.00	-21.90	peak	100	197	
6	981.5700	5.80	-78.63	-72.83	-36.00	-36.83	peak	100	51	



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/11 18:54:20
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	9.02	-81.10	-72.08	-36.00	-36.08	peak	100	168	
2	95.9599	-9.36	-73.48	-82.84	-54.00	-28.84	peak	100	301	
3	257.9499	-3.92	-79.90	-83.82	-36.00	-47.82	peak	100	144	
4	654.6799	1.02	-78.36	-77.34	-54.00	-23.34	peak	100	70	
5	845.7699	3.72	-78.86	-75.14	-54.00	-21.14	peak	100	192	
6	997.0900	5.52	-79.42	-73.90	-36.00	-37.90	peak	100	59	



Service No.:	114039655-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/11 18:55:24
Applicant:	Sourcing Overseas	Test Rating:	DC 3V
Product:	Tracker-001	Temp.(°C)/Hum.(%)	22.5(°C)/58%
Model No.:	HT-2100	Test Engineer:	George Yang
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	9.02	-78.74	-69.72	-36.00	-33.72	peak	100	336	
2	97.9000	-9.13	-66.93	-76.06	-54.00	-22.06	peak	100	54	
3	430.6100	-1.79	-79.11	-80.90	-36.00	-44.90	peak	100	62	
4	586.7800	0.16	-79.17	-79.01	-54.00	-25.01	peak	100	97	
5	731.3100	1.58	-78.42	-76.84	-54.00	-22.84	peak	100	232	
6	994.1800	5.57	-78.52	-72.95	-36.00	-36.95	peak	100	144	