

Test Report No.50224373 001

Appendix D: Radiated and Mains Spurious Emission Data

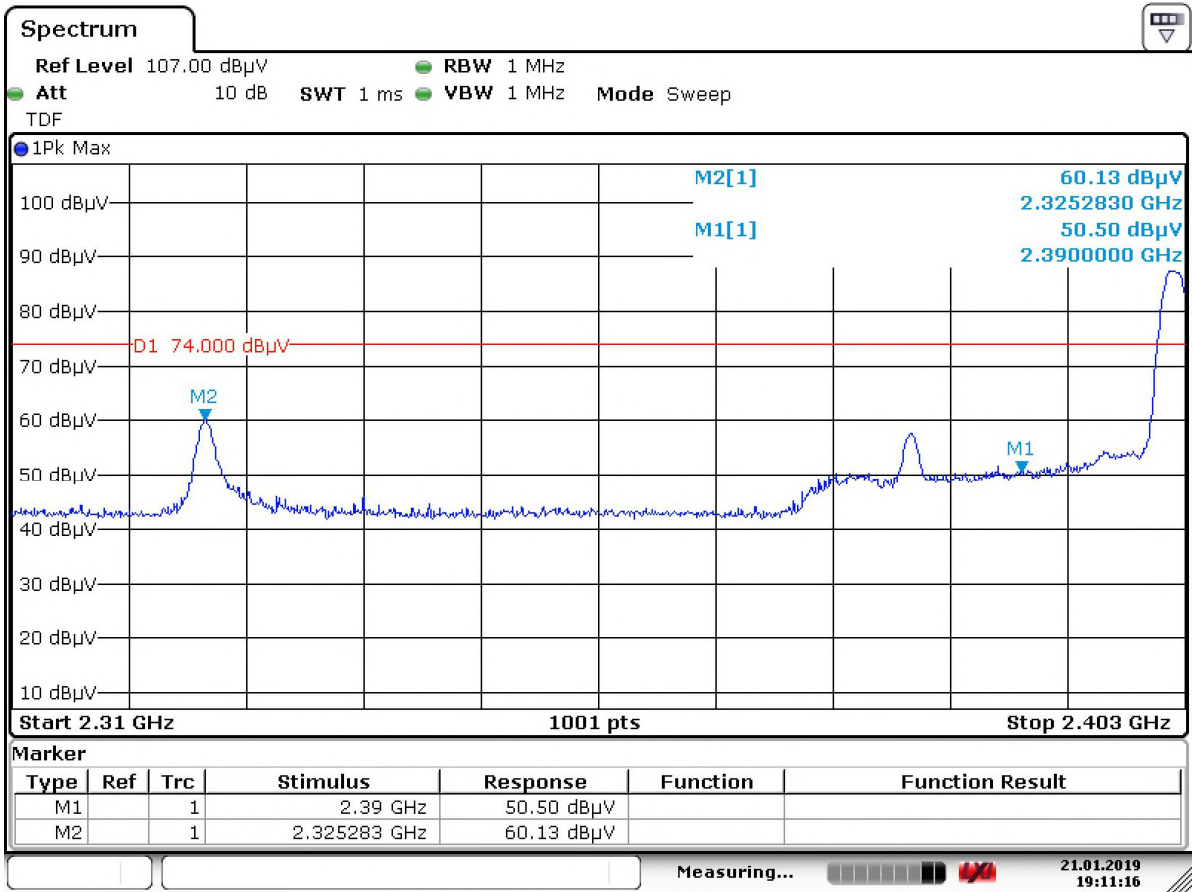
(File: 50224373 001 Appendix D)

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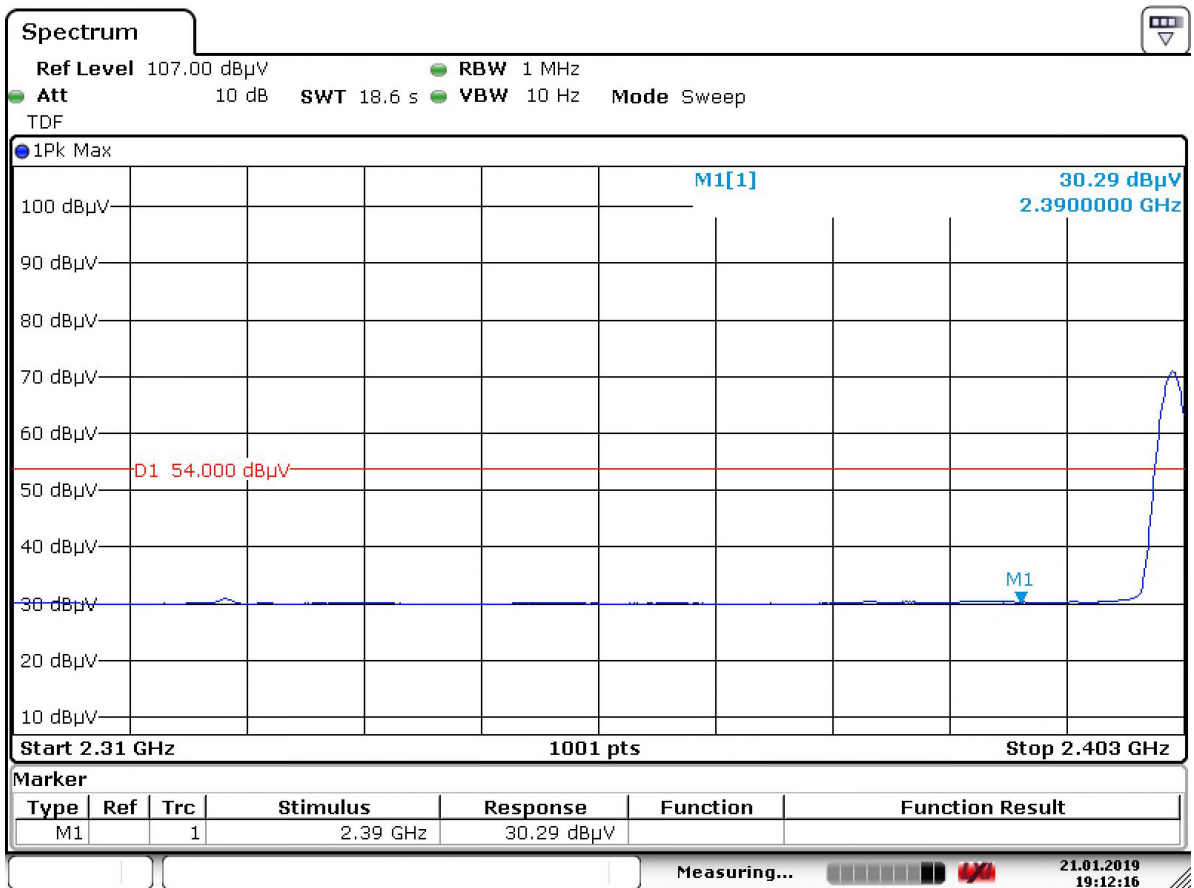
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Low Channel (Horizontal)

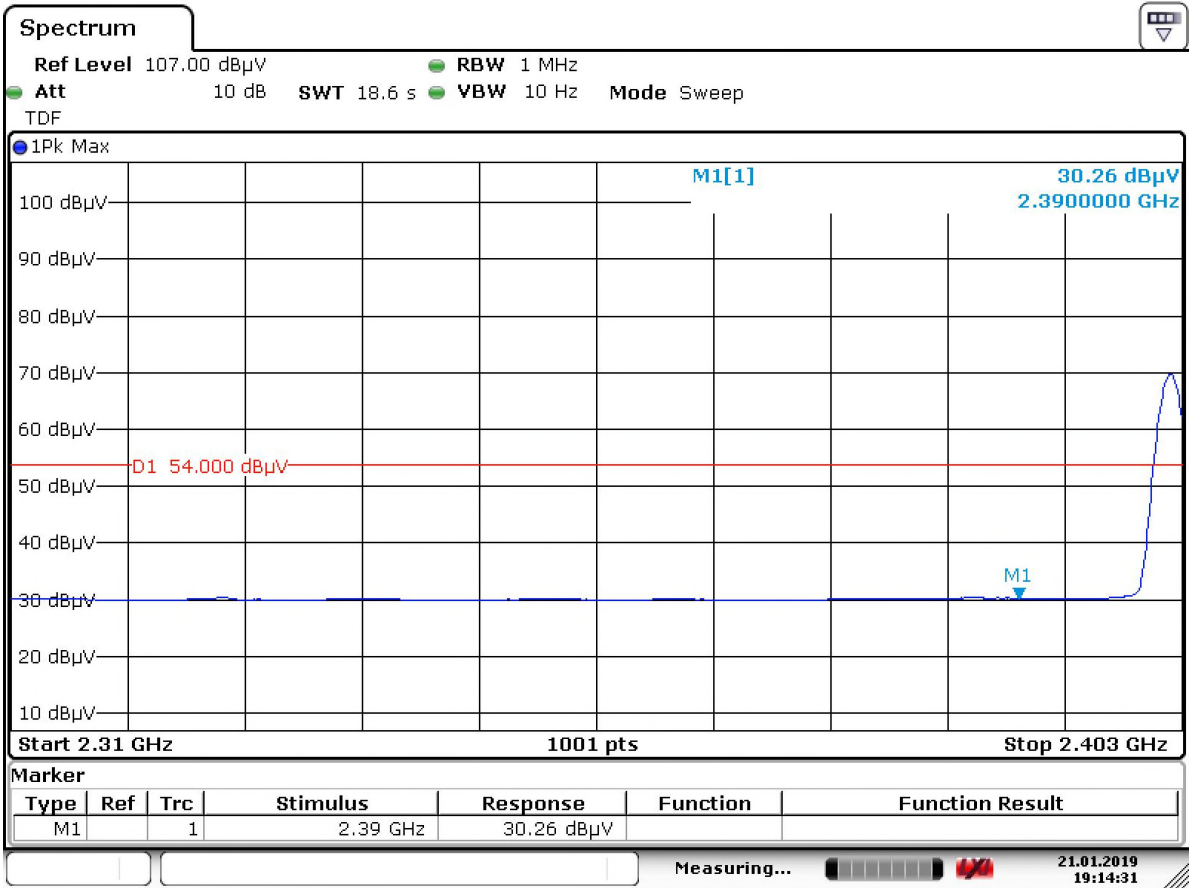


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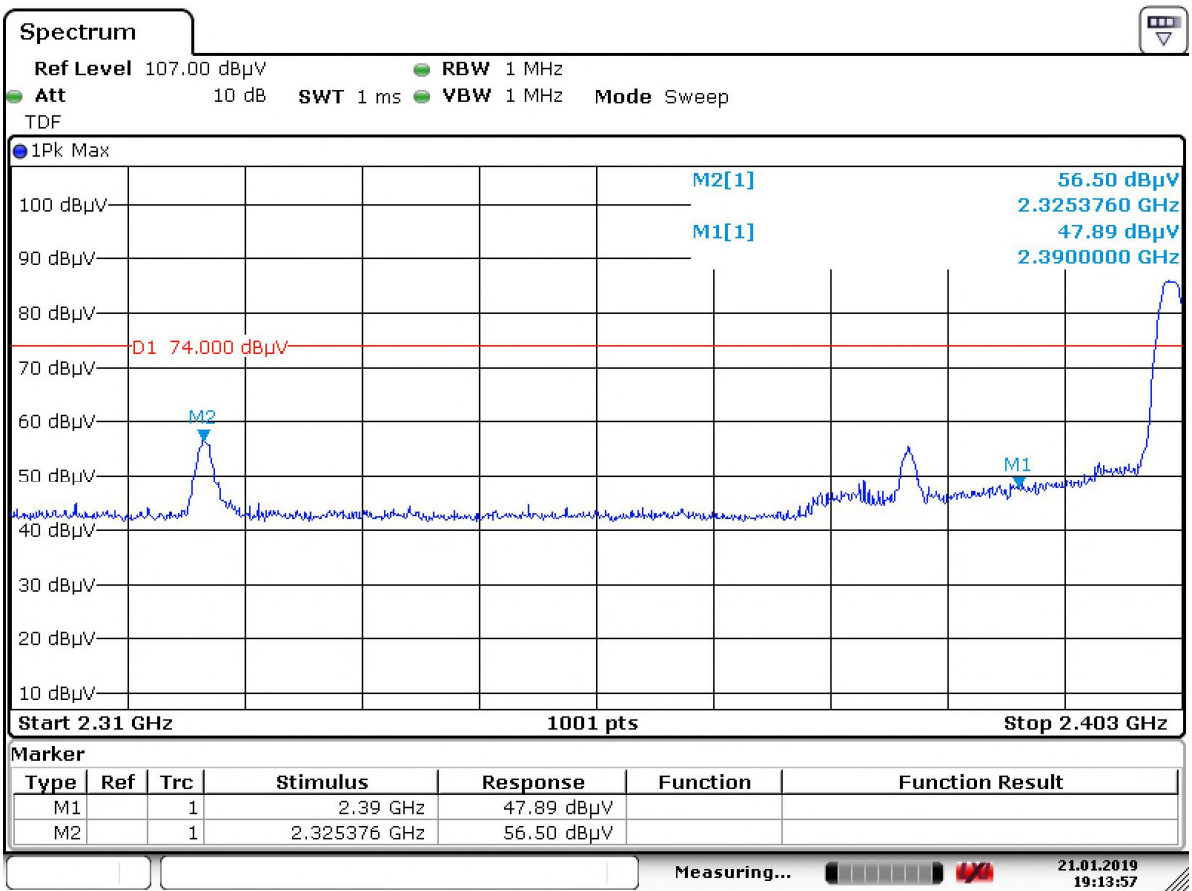


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Low Channel (Vertical)

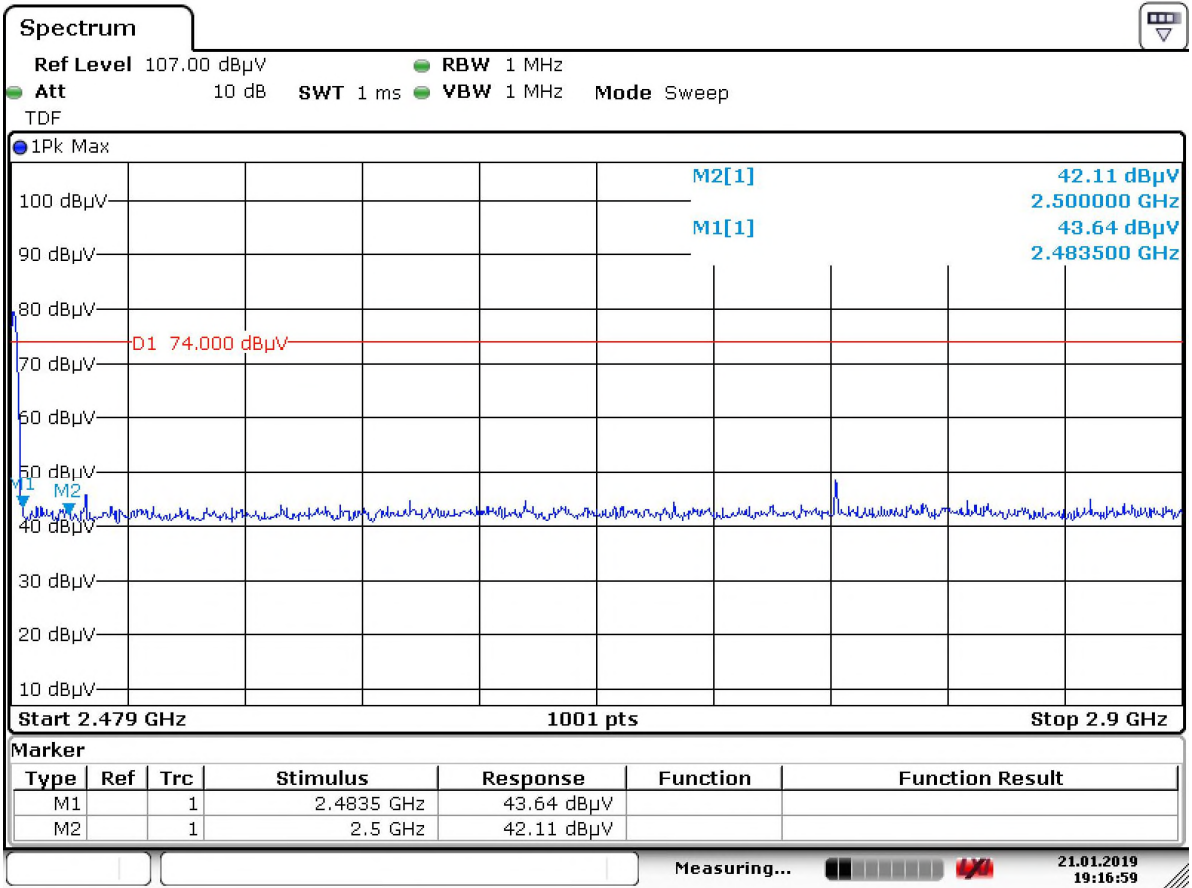


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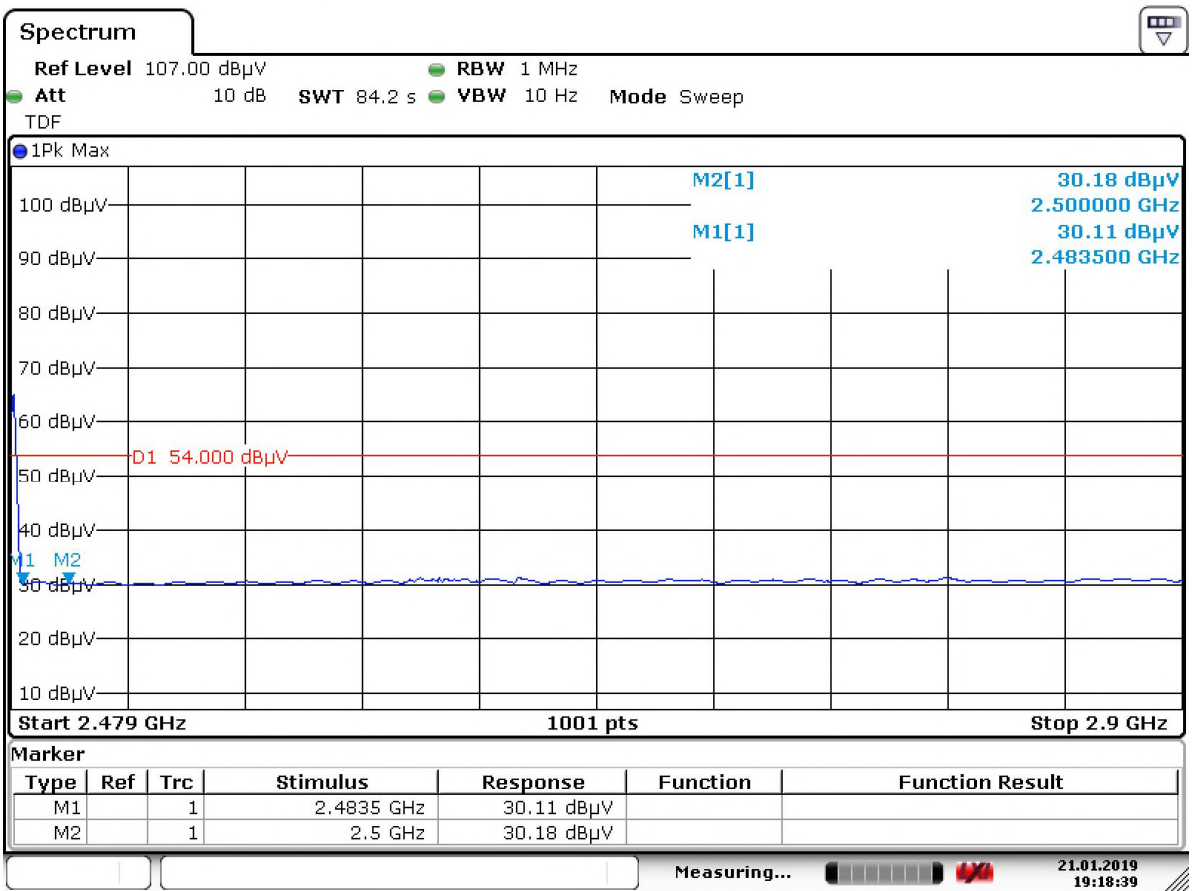


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High Channel (Horizontal)

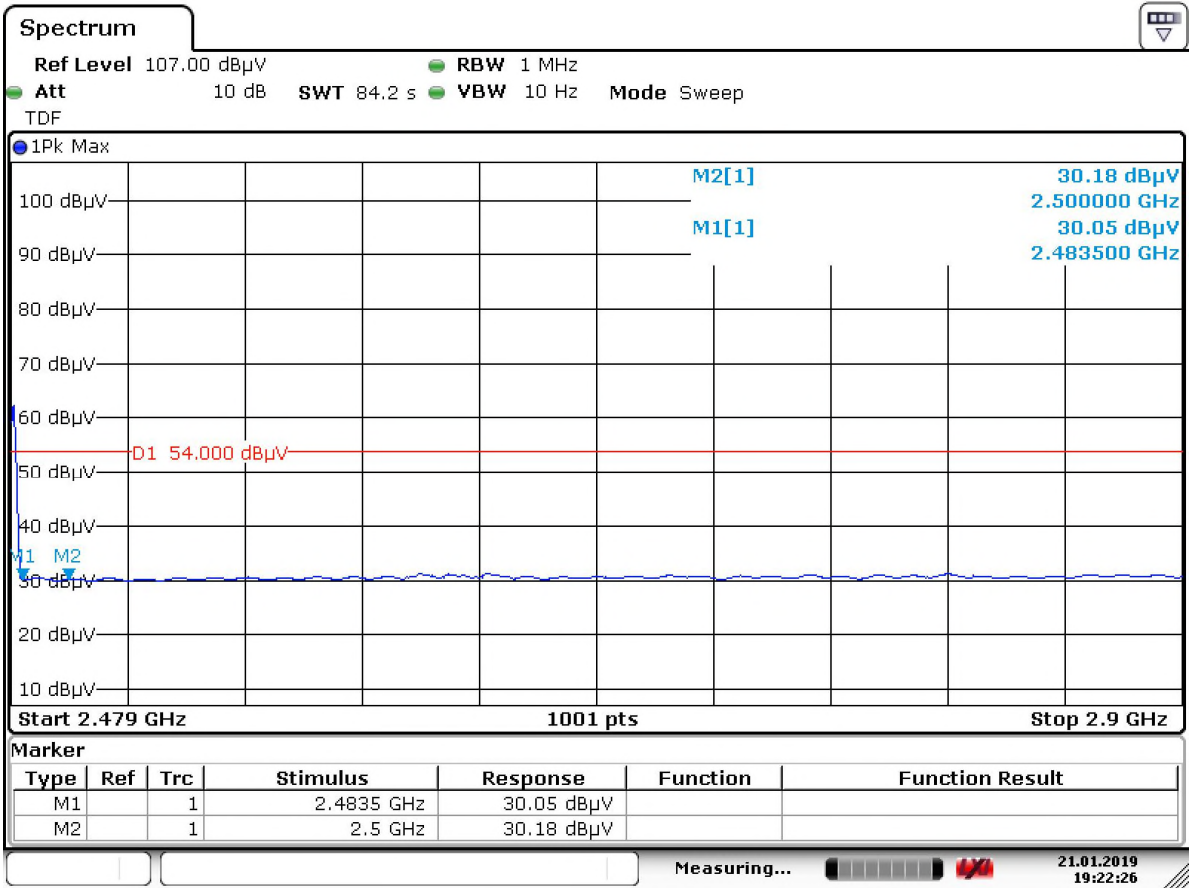


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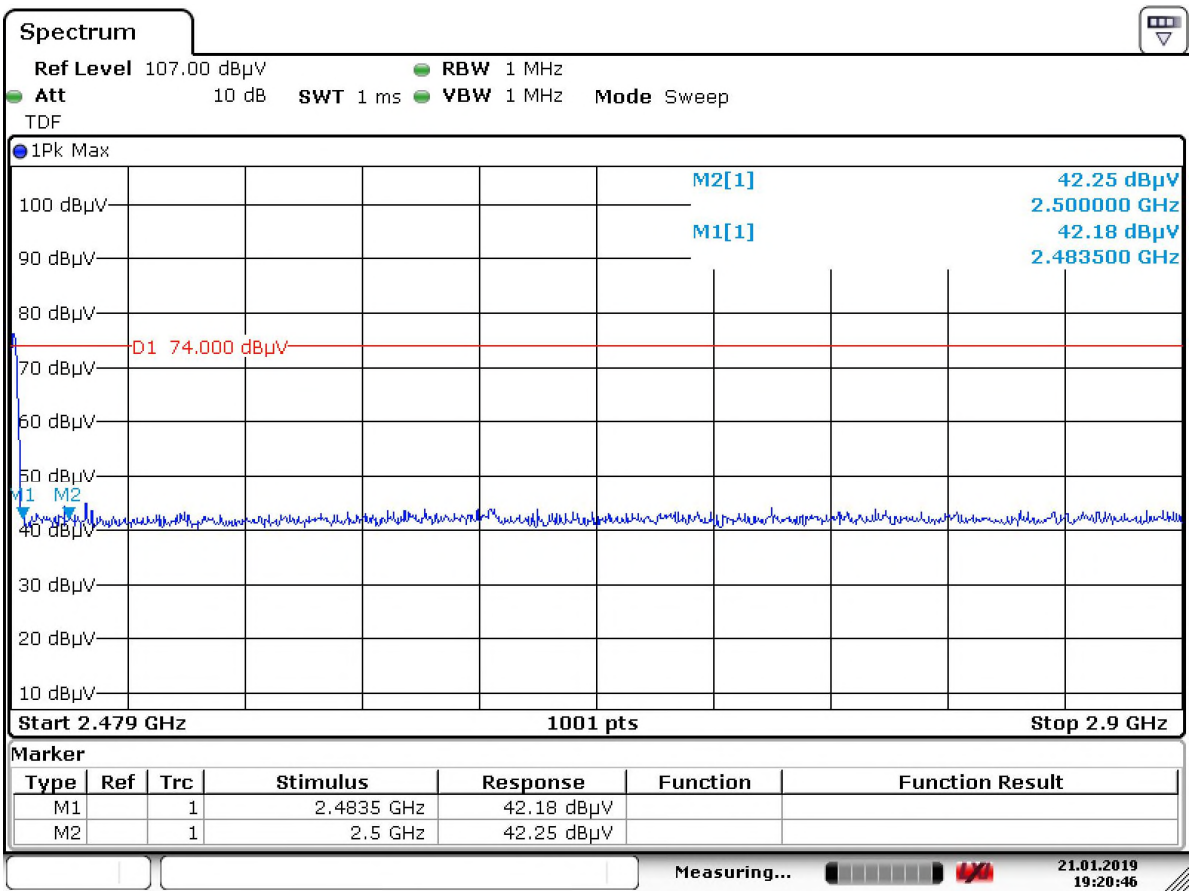


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High Channel (Vertical)



Date: 21.JAN.2019 19:22:27



Date: 21.JAN.2019 19:20:46

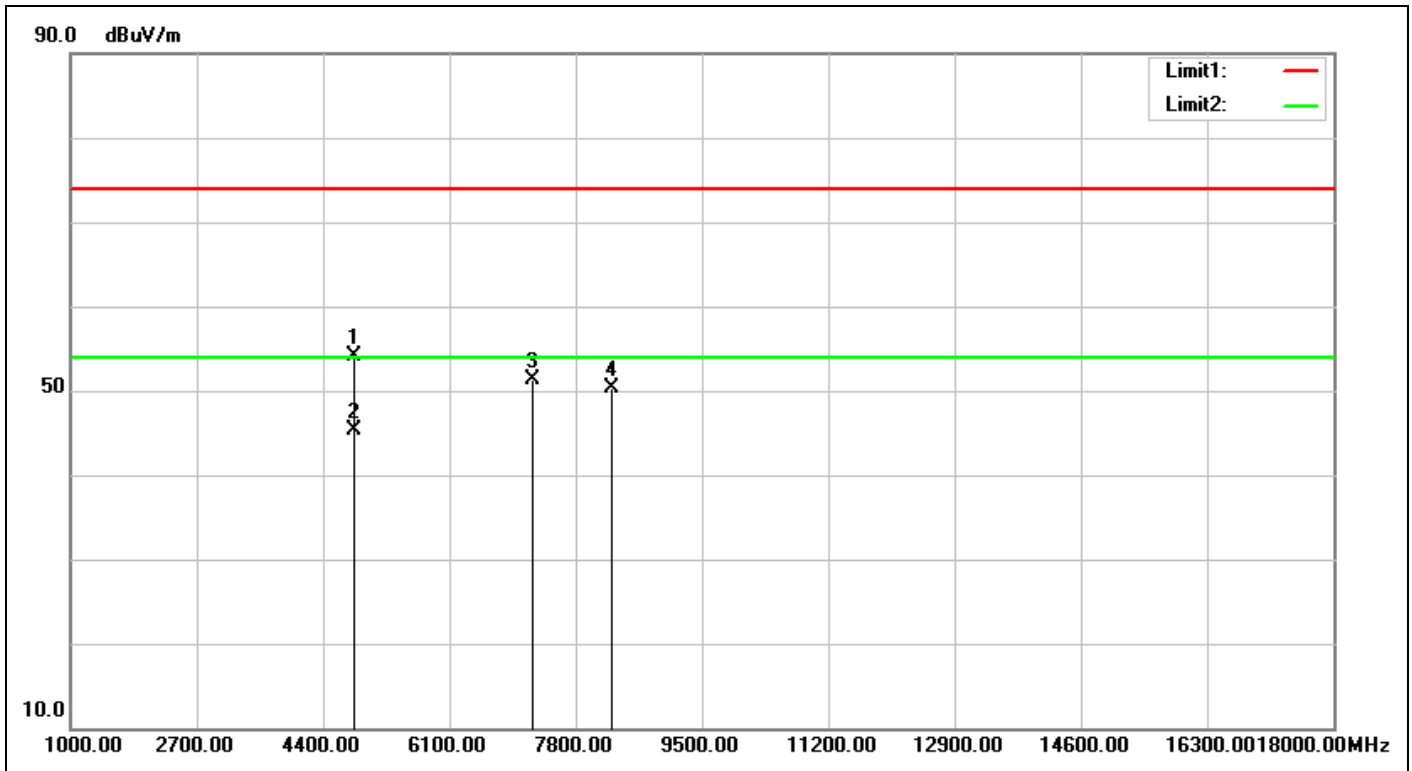
Spurious Emissions, TX Mode, 1-18G



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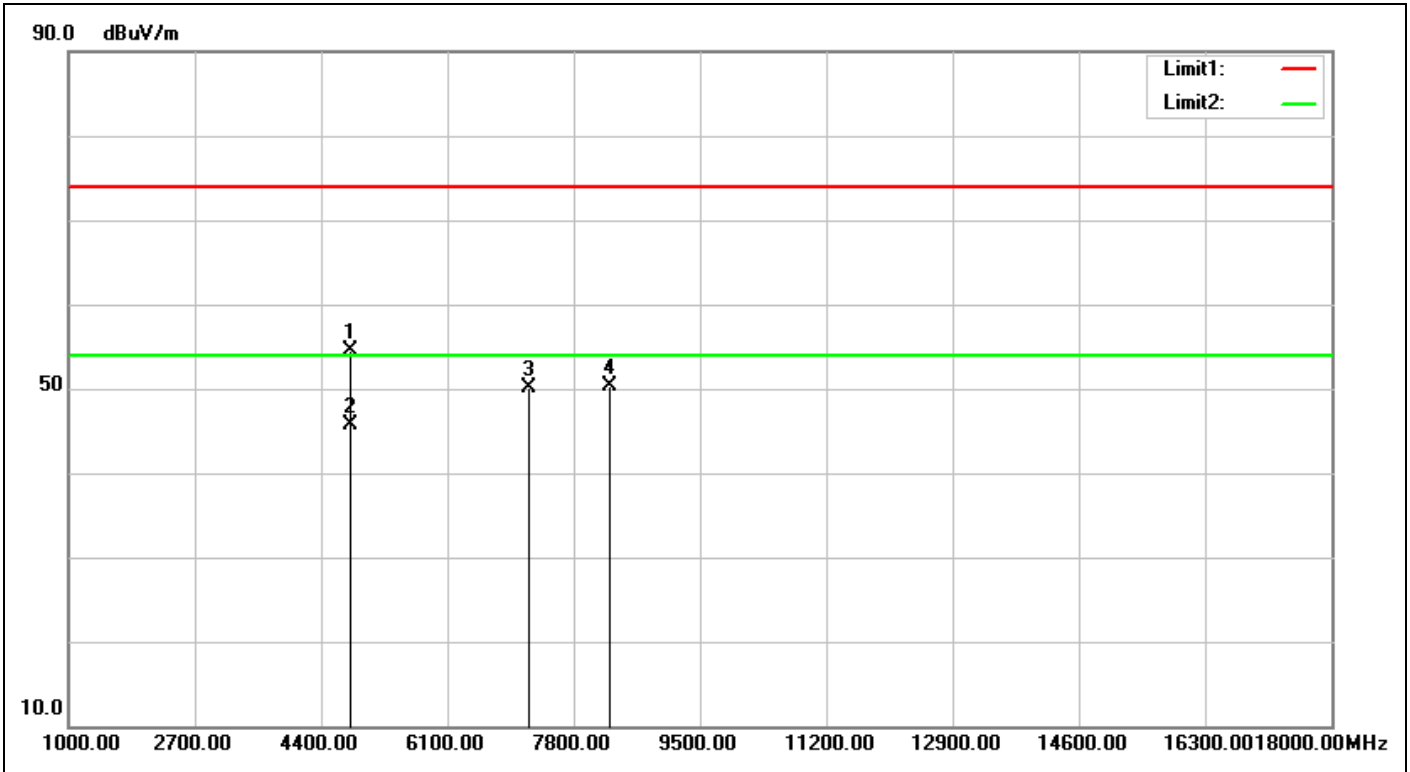
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



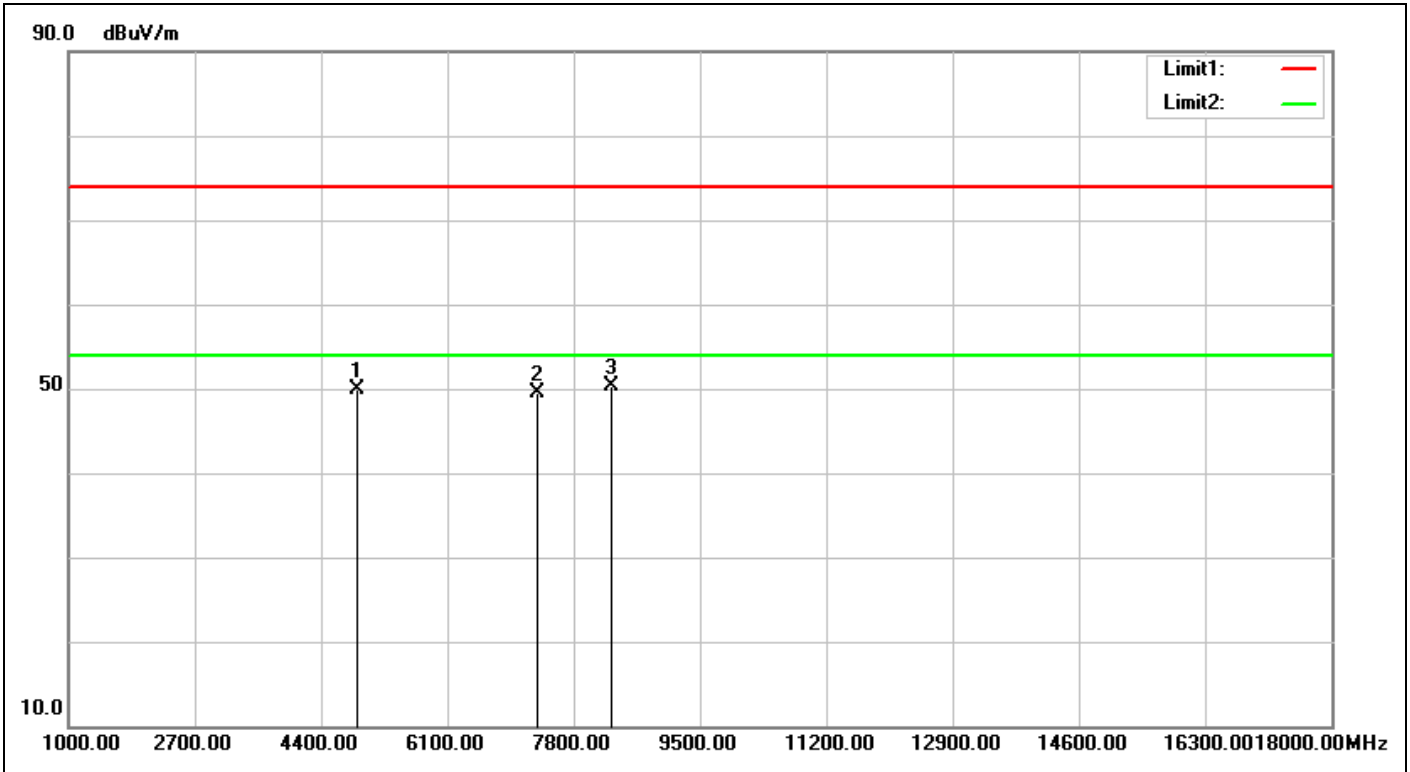
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:12:06
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	56.74	54.10	74.00	-19.90	peak	100	171	
2	4804.000	-2.64	47.92	45.28	54.00	-8.72	AVG	100	171	
3	7206.000	5.26	45.98	51.24	74.00	-22.76	peak		0	
4	8293.000	6.24	44.03	50.27	74.00	-23.73	peak	100	65	



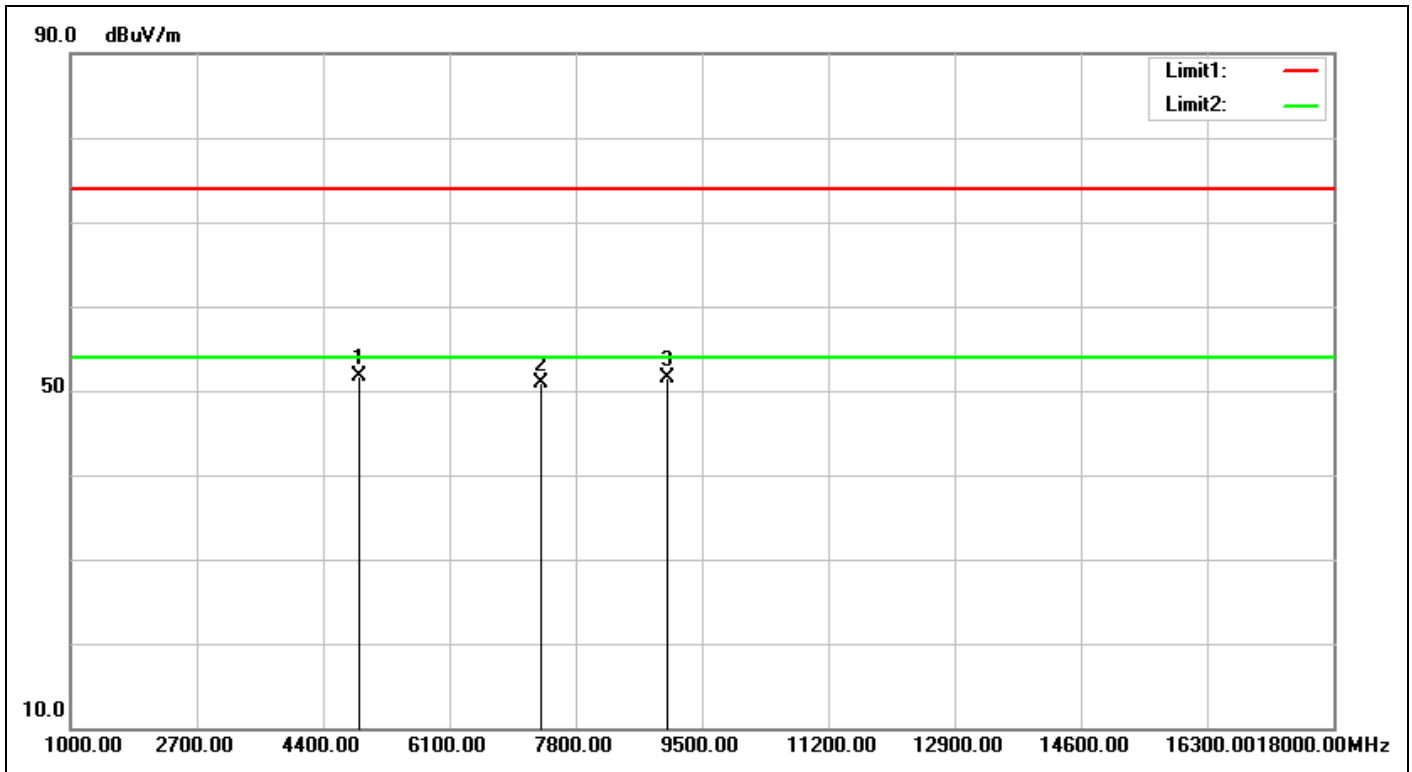
Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:12:58
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	57.09	54.45	74.00	-19.55	peak	100	261	
2	4804.000	-2.64	48.31	45.67	54.00	-8.33	AVG	100	261	
3	7206.000	5.26	44.84	50.10	74.00	-23.90	peak			
4	8293.000	6.24	44.03	50.27	74.00	-23.73	peak	100	340	



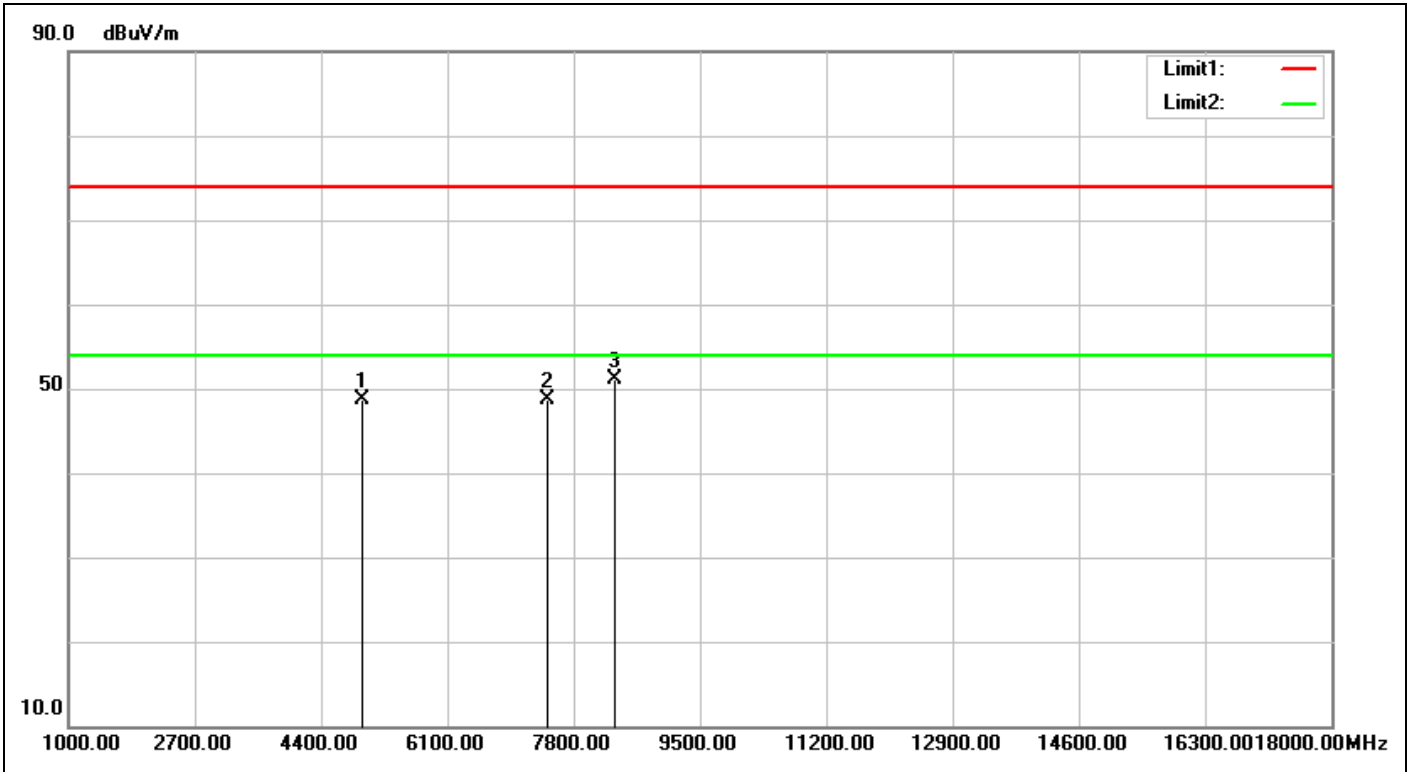
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:16:48
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.45	52.39	49.94	74.00	-24.06	peak	100	174	
2	7320.000	5.54	43.94	49.48	74.00	-24.52	peak			
3	8310.000	6.27	44.02	50.29	74.00	-23.71	peak	100	225	



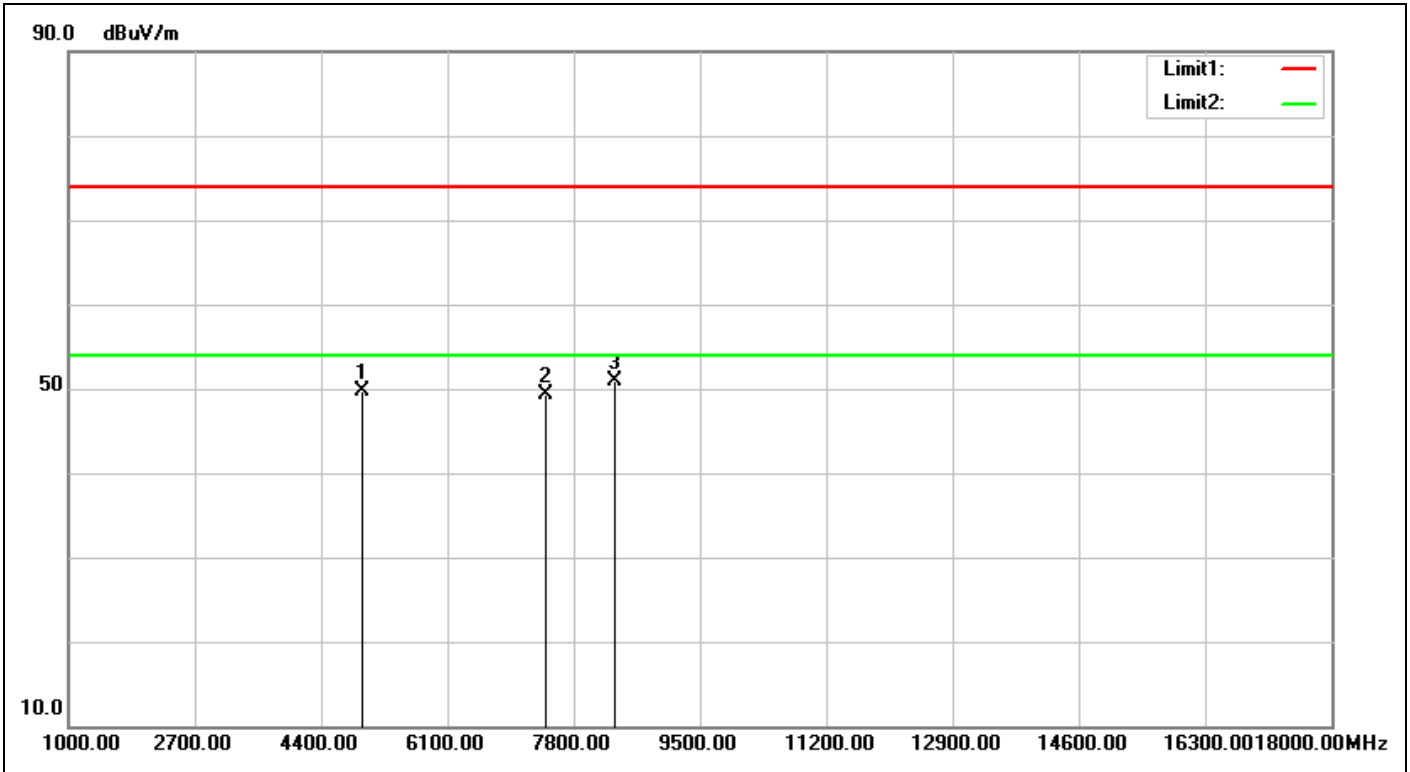
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:17:40
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.45	54.06	51.61	74.00	-22.39	peak	100	257	
2	7320.000	5.54	45.43	50.97	74.00	-23.03	peak			
3	9041.000	6.60	44.81	51.41	74.00	-22.59	peak	100	52	



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:19:56
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.25	50.91	48.66	74.00	-25.34	peak	100	191	
2	7440.000	5.83	42.95	48.78	74.00	-25.22	peak			
3	8344.000	6.33	44.75	51.08	74.00	-22.92	peak	100	160	



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:20:49
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-2.25	52.03	49.78	74.00	-24.22	peak	100	245	
2	7440.000	5.83	43.47	49.30	74.00	-24.70	peak			
3	8361.000	6.36	44.54	50.90	74.00	-23.10	peak	100	60	

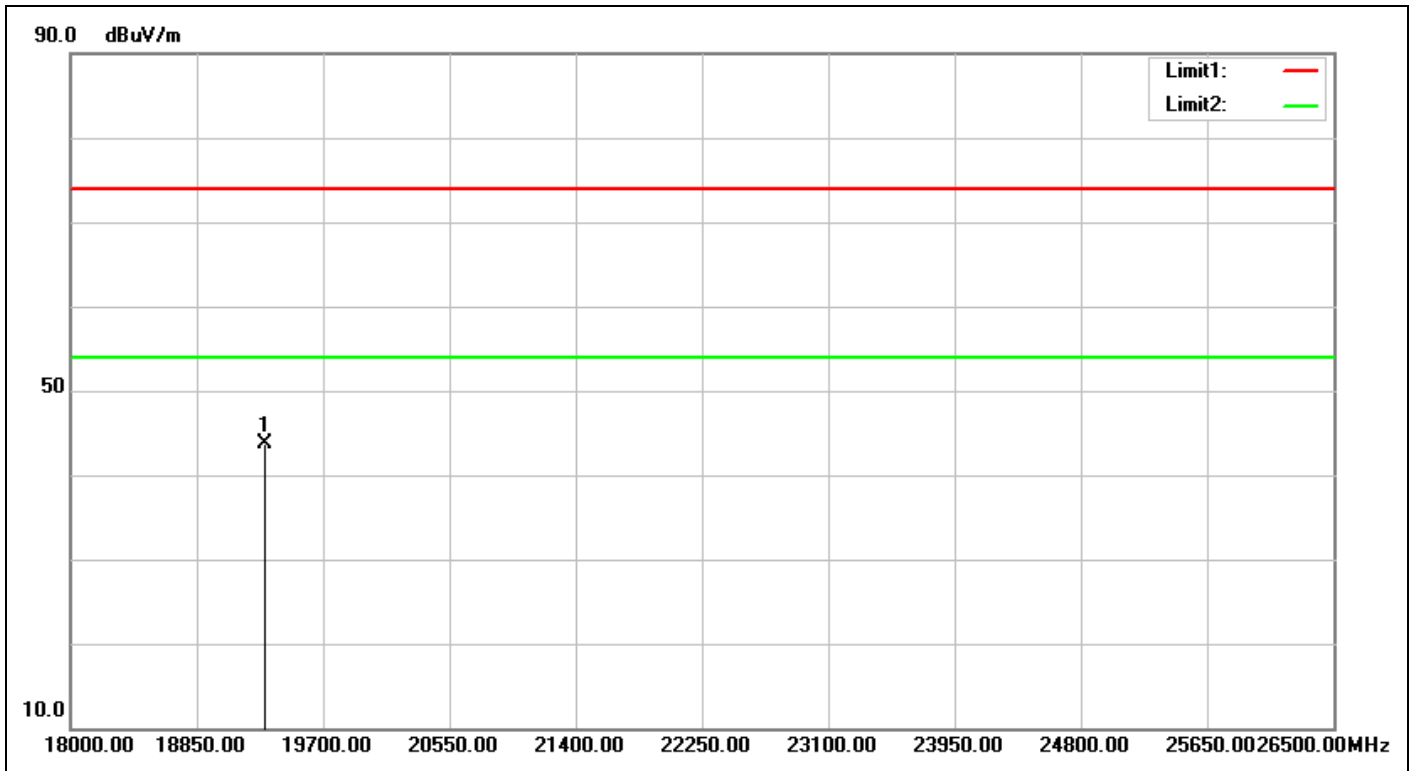
Spurious Emissions, TX Mode, 18-26G



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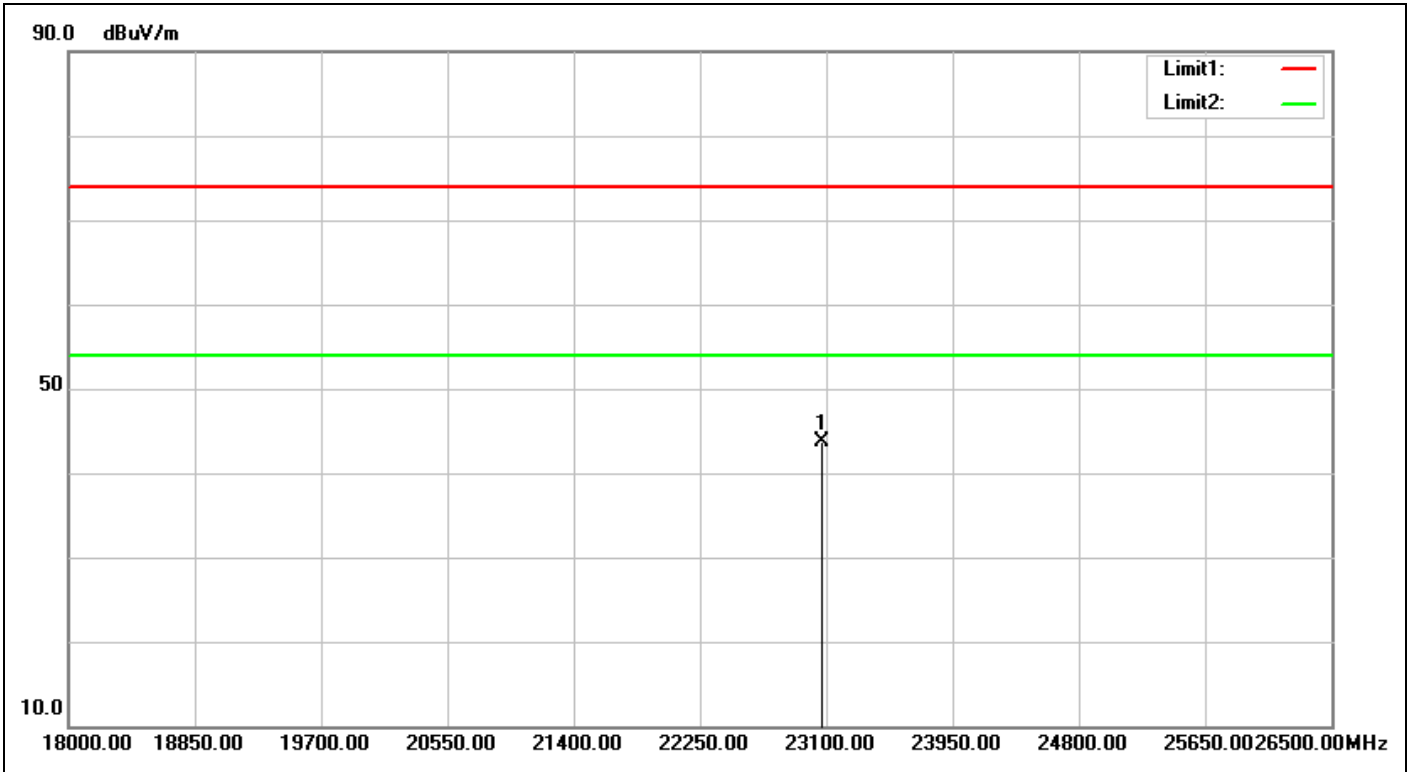
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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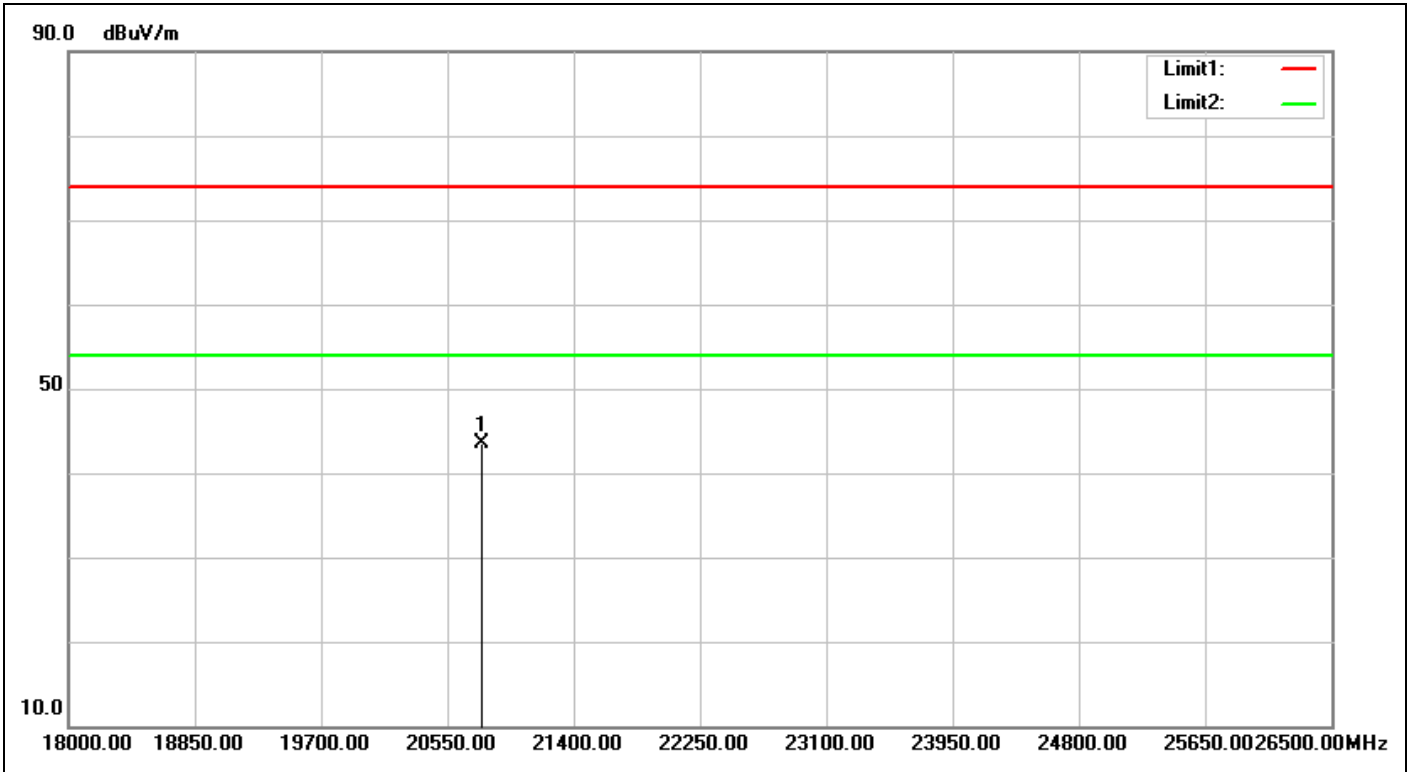
Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:35:48
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19309.000	3.99	39.73	43.72	74.00	-30.28	peak		0	



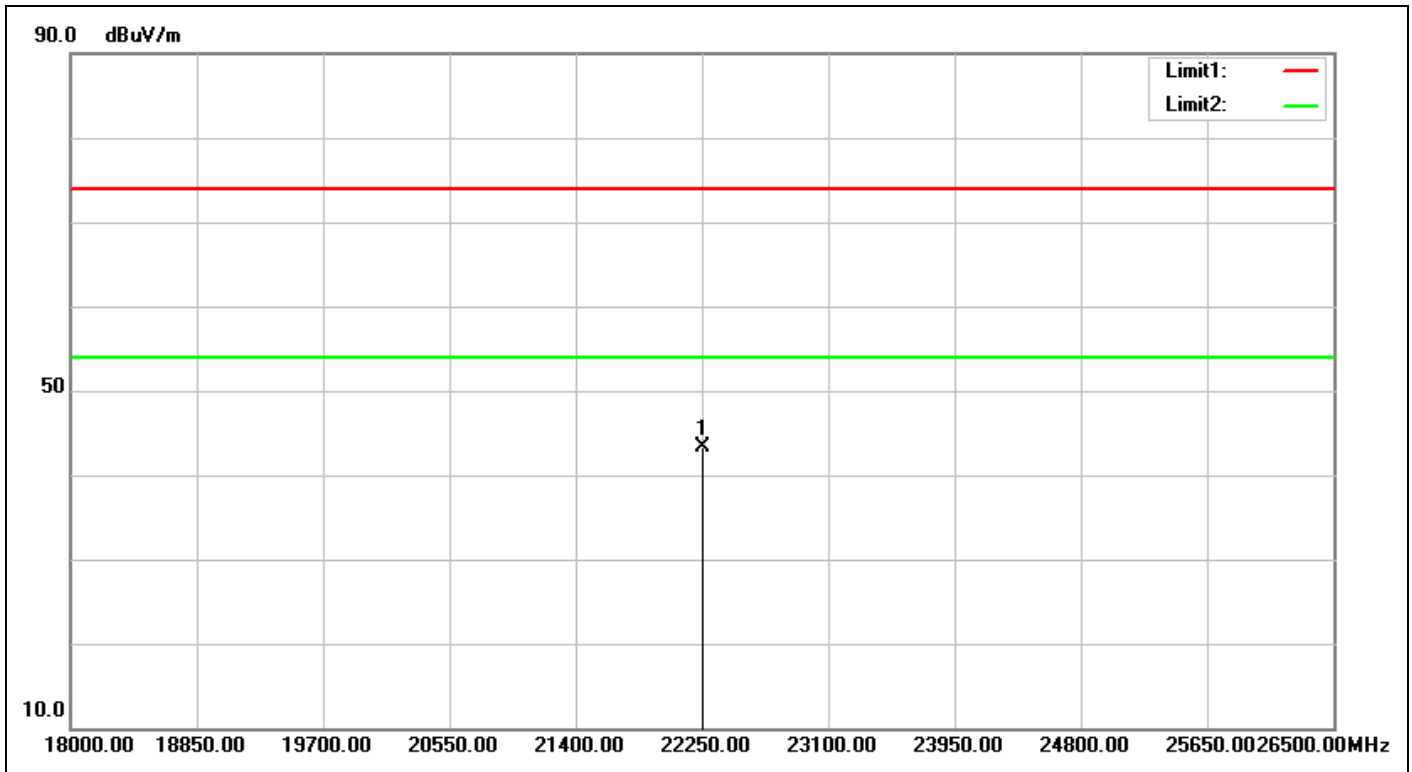
Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:35:55
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23066.000	5.14	38.51	43.65	74.00	-30.35	peak			



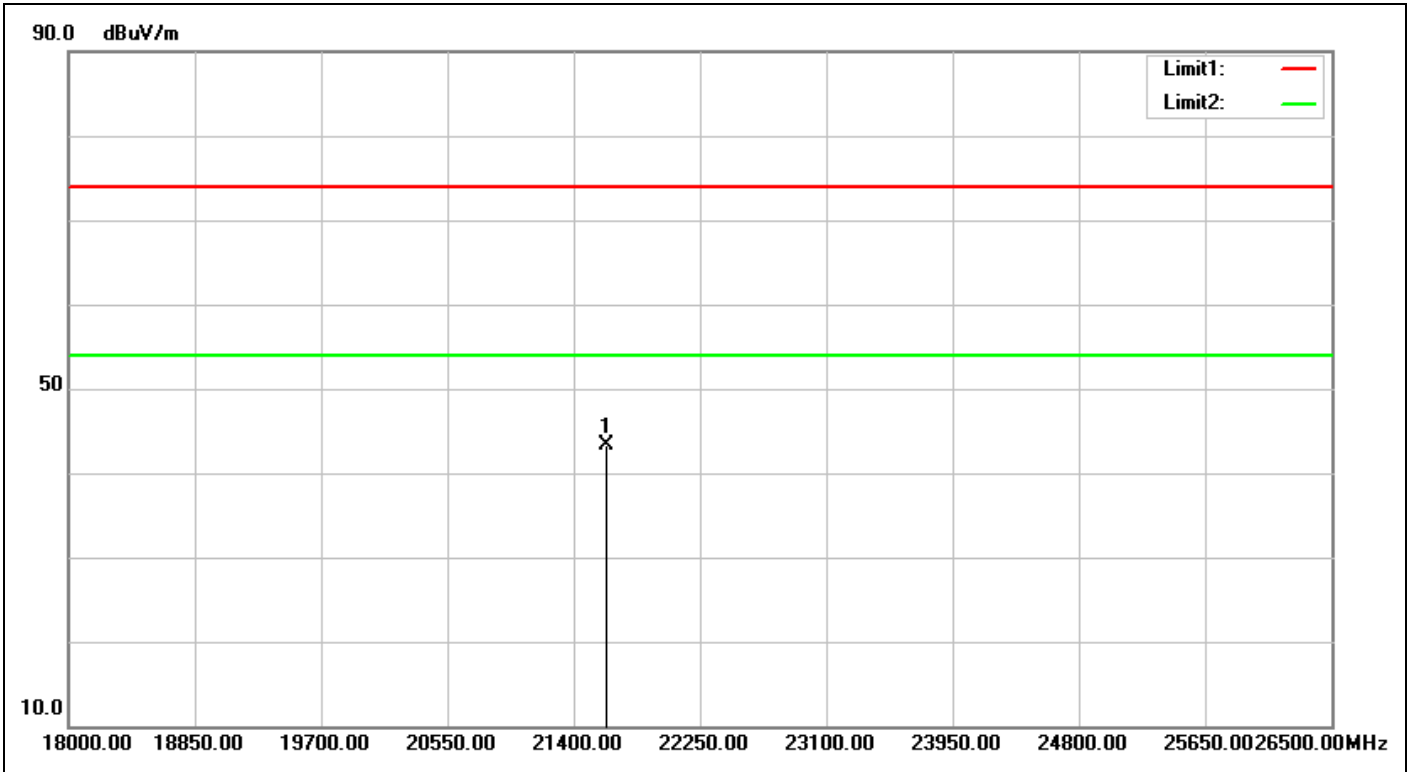
Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:36:32
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20779.500	4.34	39.09	43.43	74.00	-30.57	peak			



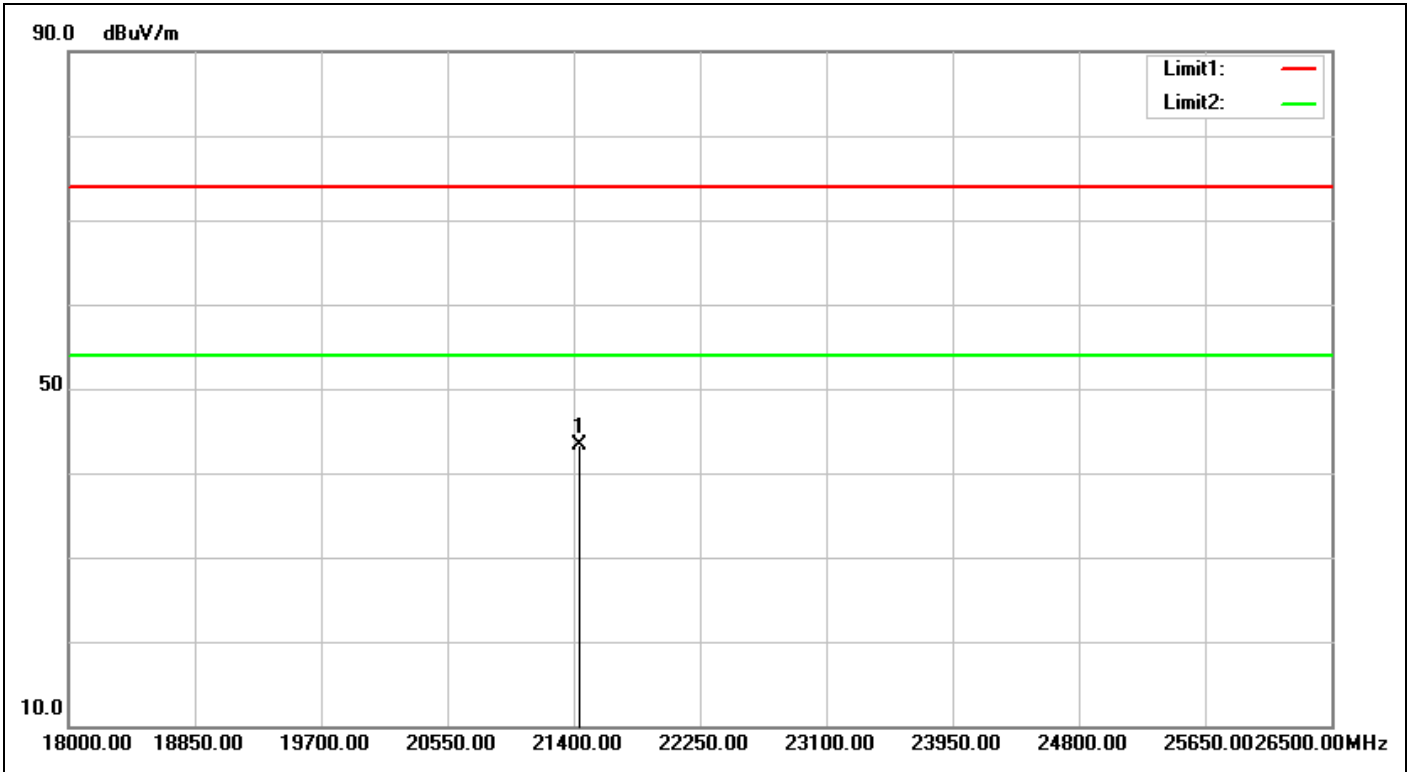
Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:36:39
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22258.500	4.75	38.51	43.26	74.00	-30.74	peak			



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:37:03
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21621.000	4.31	38.96	43.27	74.00	-30.73	peak			



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:37:09
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21442.500	4.40	38.90	43.30	74.00	-30.70	peak			

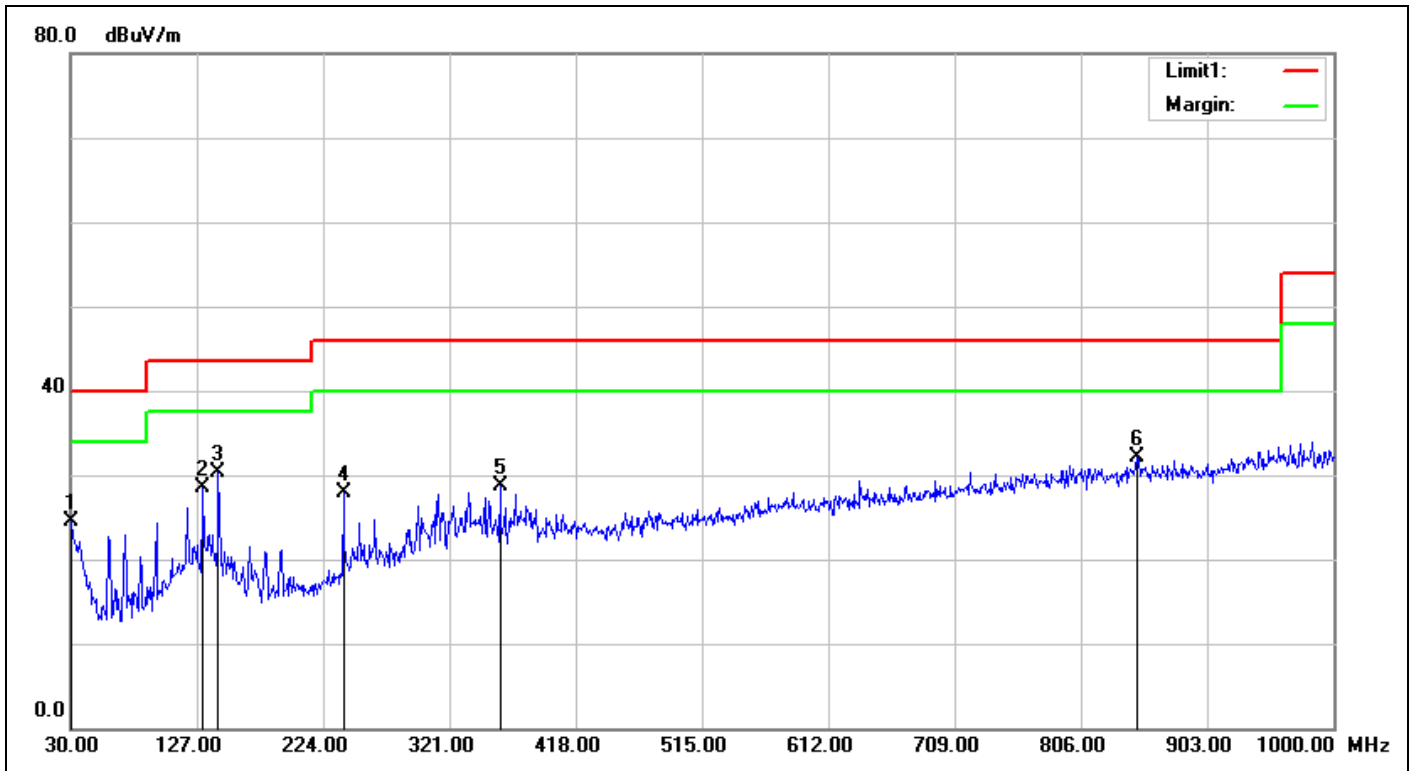
Spurious Emissions, TX Mode, 30M-1G



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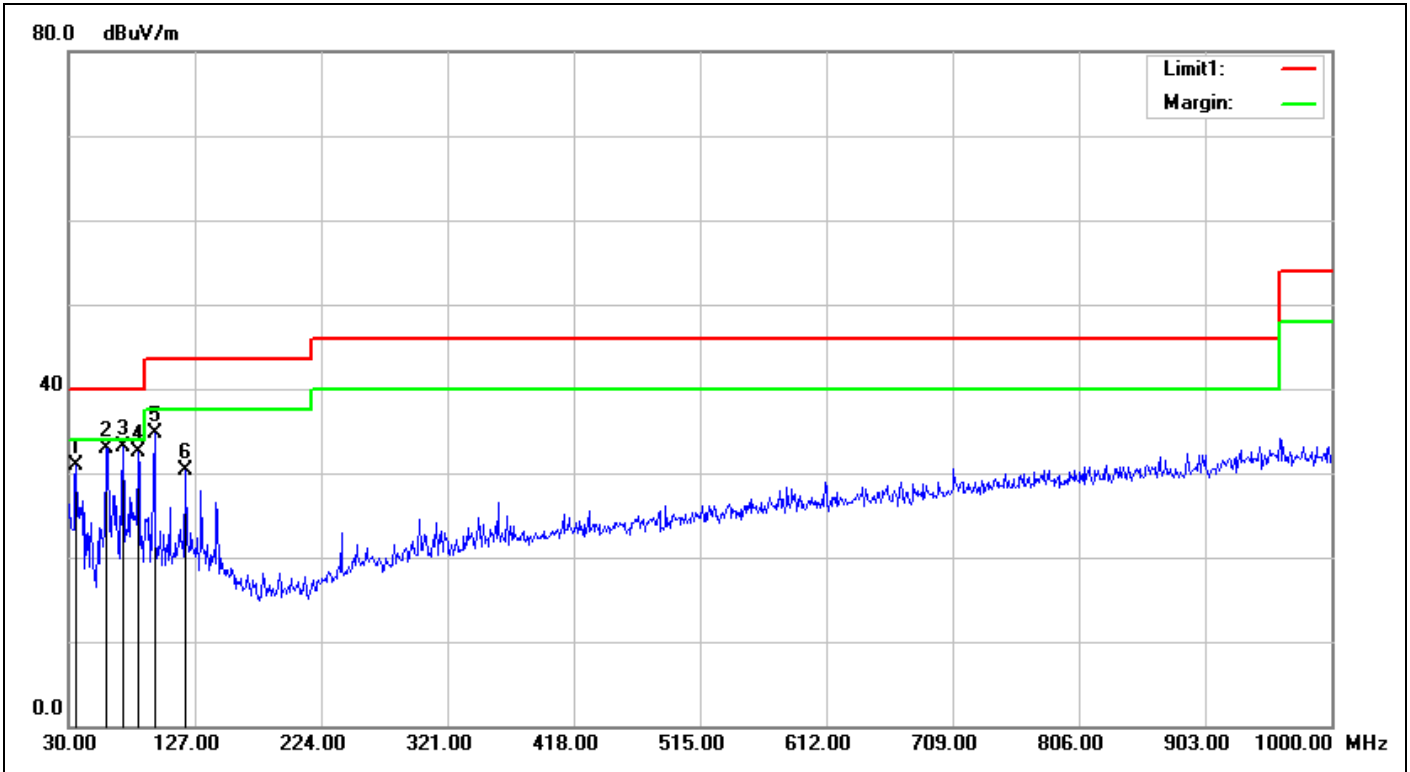
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Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 20:31:53
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.51	24.98	24.47	40.00	-15.53	QP	100	68	
2	131.8500	-7.06	35.48	28.42	43.50	-15.08	QP	100	269	
3	143.4900	-7.02	37.31	30.29	43.50	-13.21	QP	100	279	
4	239.5200	-6.78	34.71	27.93	46.00	-18.07	QP	100	134	
5	359.8000	-3.18	31.82	28.64	46.00	-17.36	QP	100	141	
6	848.6800	3.86	28.17	32.03	46.00	-13.97	QP	100	203	



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 20:32:46
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	35.8200	-3.37	34.23	30.86	40.00	-9.14	QP	100	35	
2	59.1000	-13.69	46.67	32.98	40.00	-7.02	QP	100	58	
3	71.7100	-12.83	45.88	33.05	40.00	-6.95	QP	100	170	
4	83.3500	-11.58	44.07	32.49	40.00	-7.51	QP	100	166	
5	95.9600	-10.14	44.82	34.68	43.50	-8.82	QP	100	189	
6	119.2400	-7.46	37.76	30.30	43.50	-13.20	QP	100	255	

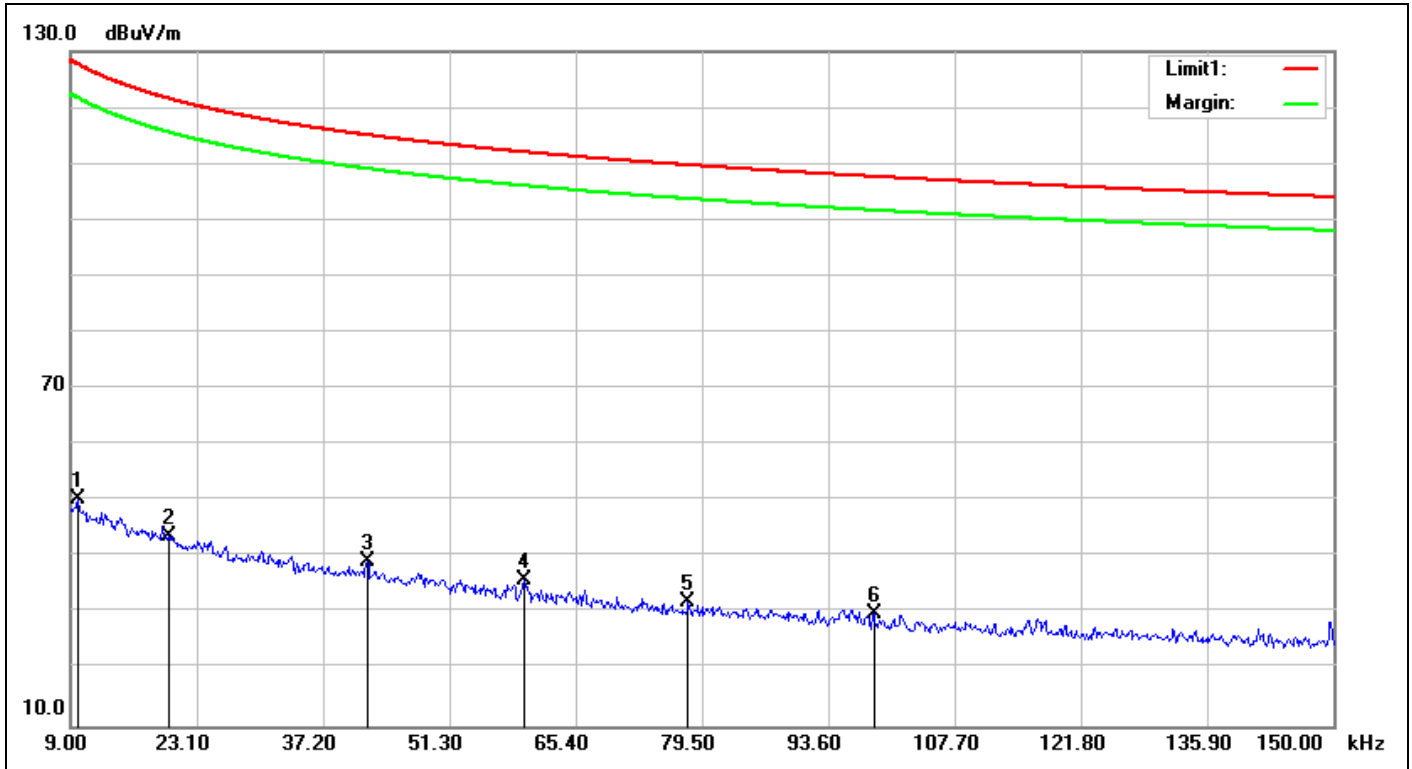
Spurious Emissions, TX Mode, 9K-30M



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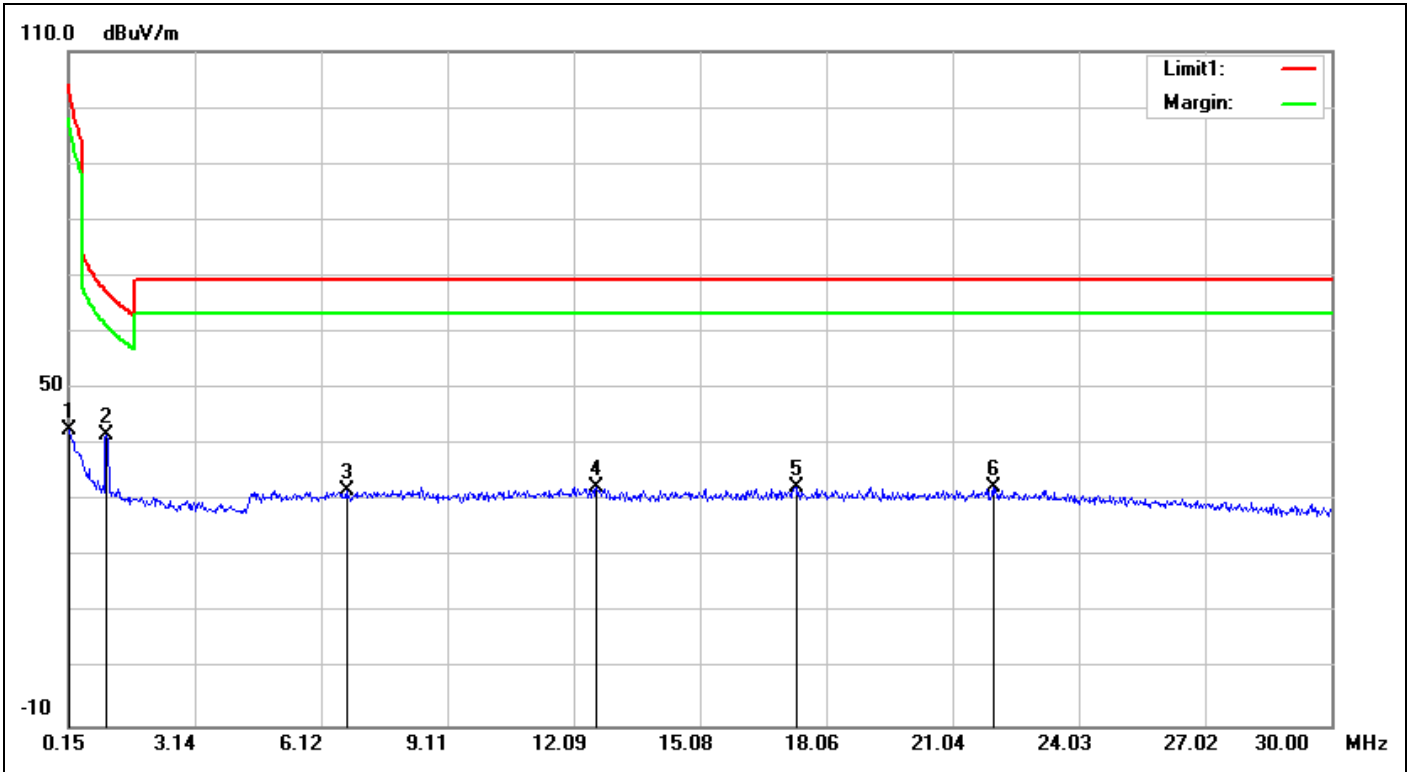
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Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/1/21 20:42:43
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0098	18.48	31.81	50.29	127.76	-77.47	QP	100	357	
2	0.0199	18.92	24.86	43.78	121.61	-77.83	QP	100	213	
3	0.0421	19.08	20.08	39.16	115.11	-75.95	QP	100	29	
4	0.0596	18.80	17.30	36.10	112.09	-75.99	QP	100	59	
5	0.0779	18.59	13.56	32.15	109.76	-77.61	QP	100	318	
6	0.0986	18.35	11.59	29.94	107.72	-77.78	QP	100	101	



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/1/21 20:45:18
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1798	18.37	24.30	42.67	102.50	-59.83	QP	100	245	
2	1.0455	18.68	23.20	41.88	67.24	-25.36	QP	100	327	
3	6.7170	19.80	11.95	31.75	69.50	-37.75	QP	100	176	
4	12.6273	20.75	11.85	32.60	69.50	-36.90	QP	100	312	
5	17.3436	21.30	11.13	32.43	69.50	-37.07	QP	100	17	
6	22.0002	21.68	10.76	32.44	69.50	-37.06	QP	100	7	

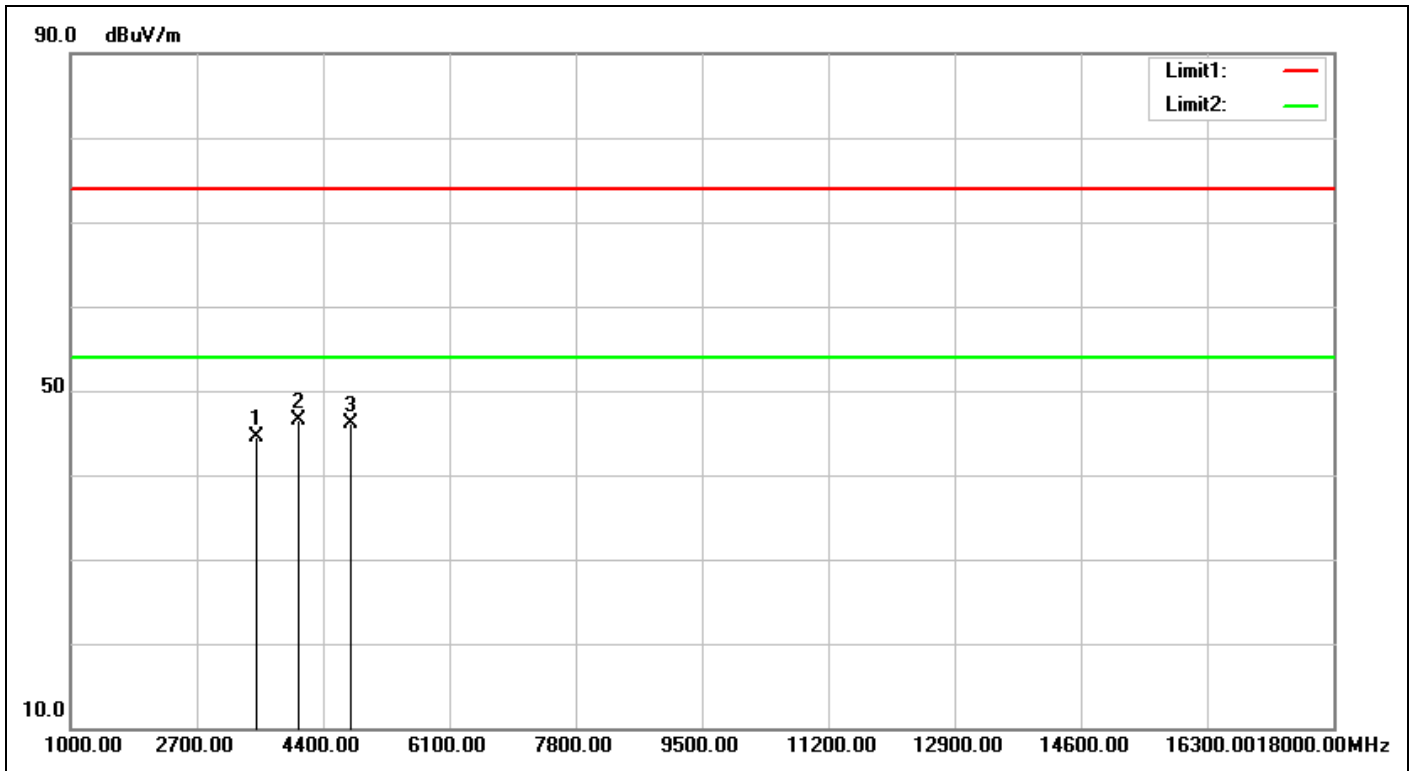
Spurious Emissions, RX Mode, 1-18G



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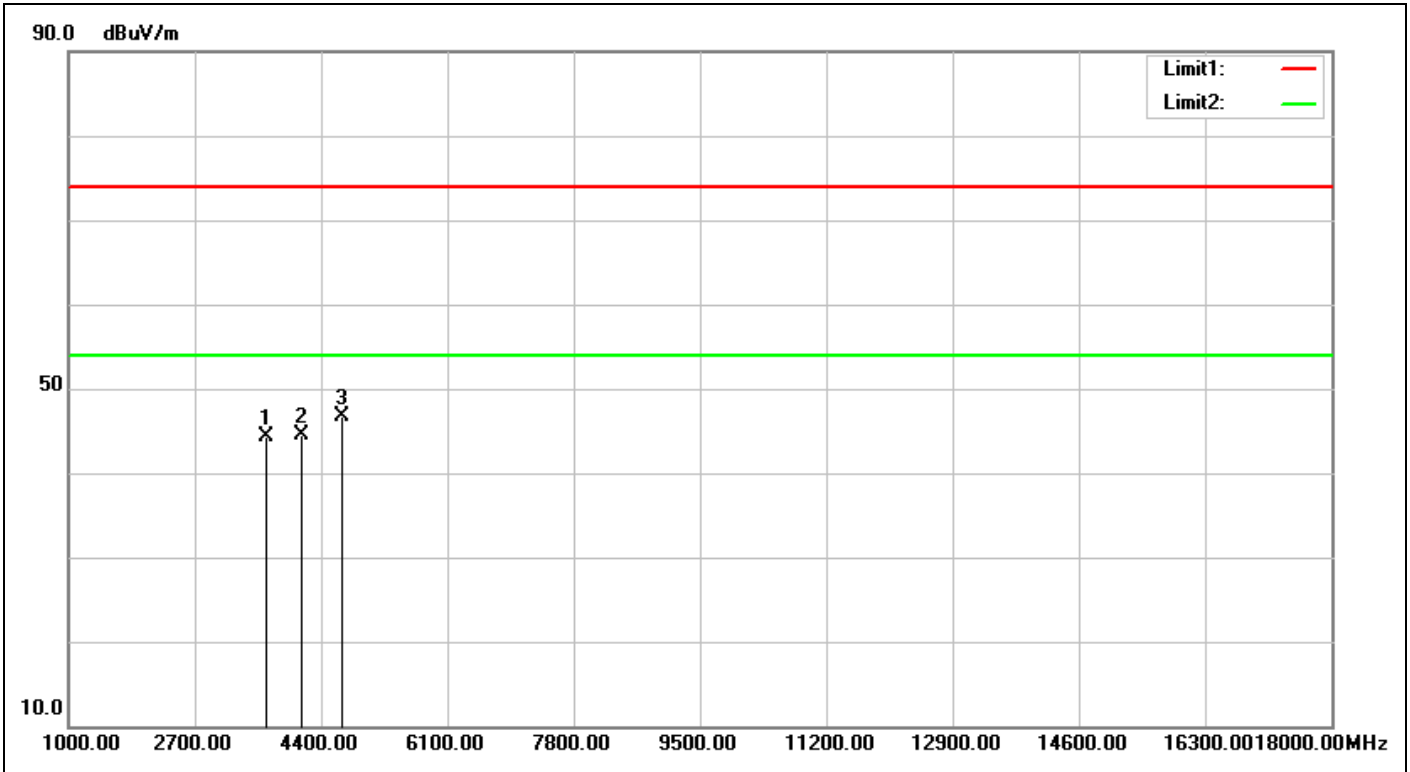
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Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:23:50
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3499.000	-6.87	51.28	44.41	74.00	-29.59	peak	100	48	
2	4077.000	-5.45	52.04	46.59	74.00	-27.41	peak	100	61	
3	4774.000	-3.49	49.65	46.16	74.00	-27.84	peak	100	88	



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:24:42
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3652.000	-6.53	50.86	44.33	74.00	-29.67	peak	100	114	
2	4145.000	-5.19	49.64	44.45	74.00	-29.55	peak	100	315	
3	4672.000	-3.64	50.35	46.71	74.00	-27.29	peak	100	49	

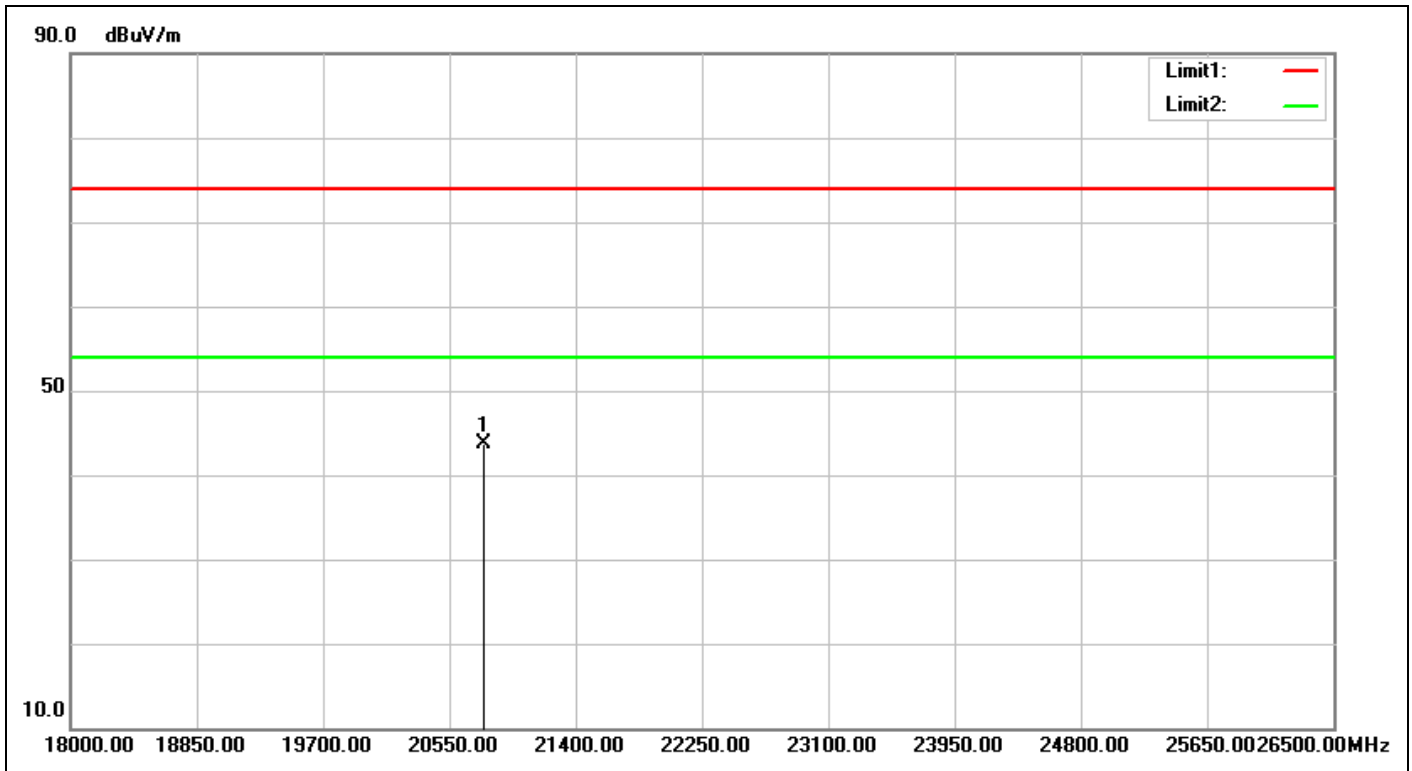
Spurious Emissions, RX Mode, 18-26G



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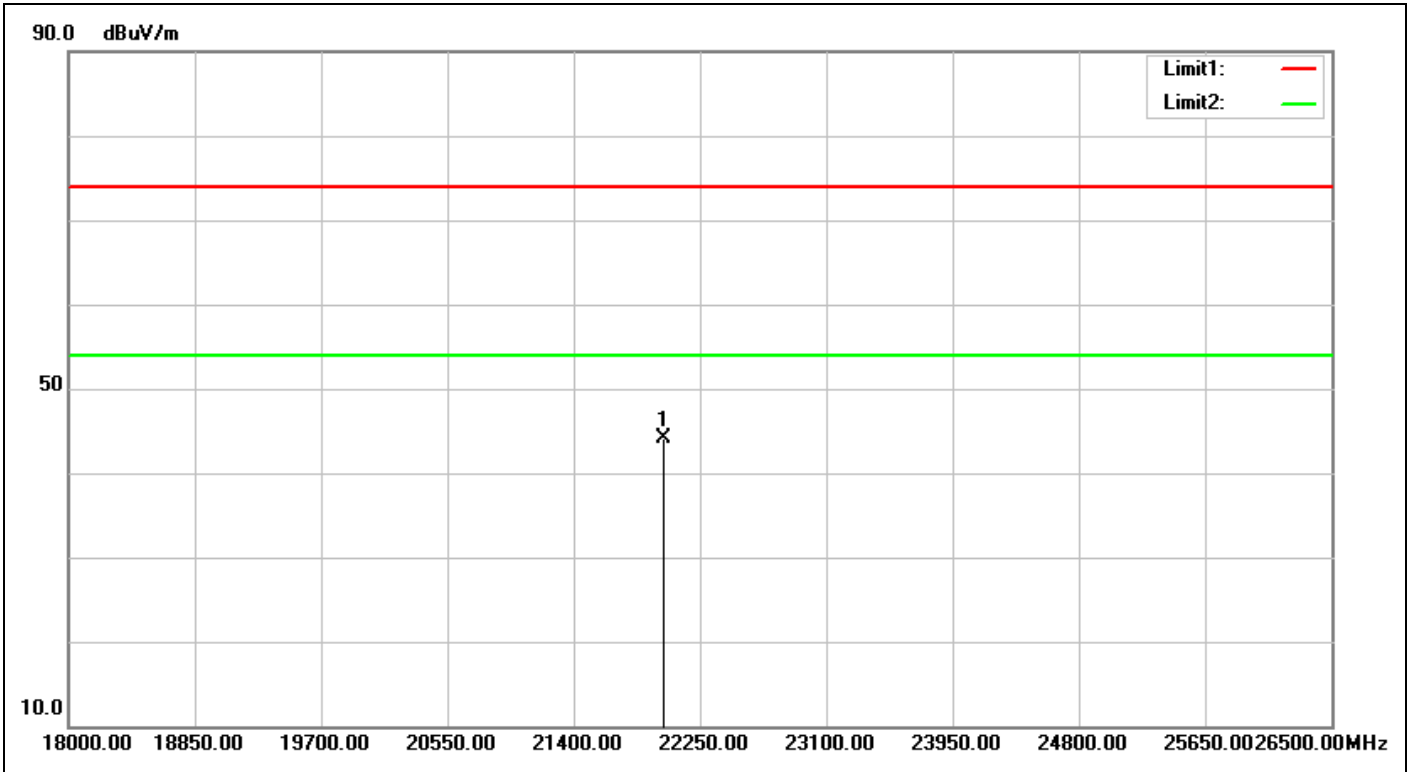
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Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 19:37:48
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20779.500	4.34	39.33	43.67	74.00	-30.33	peak			



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 19:37:55
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	22003.500	4.37	39.67	44.04	74.00	-29.96	peak			

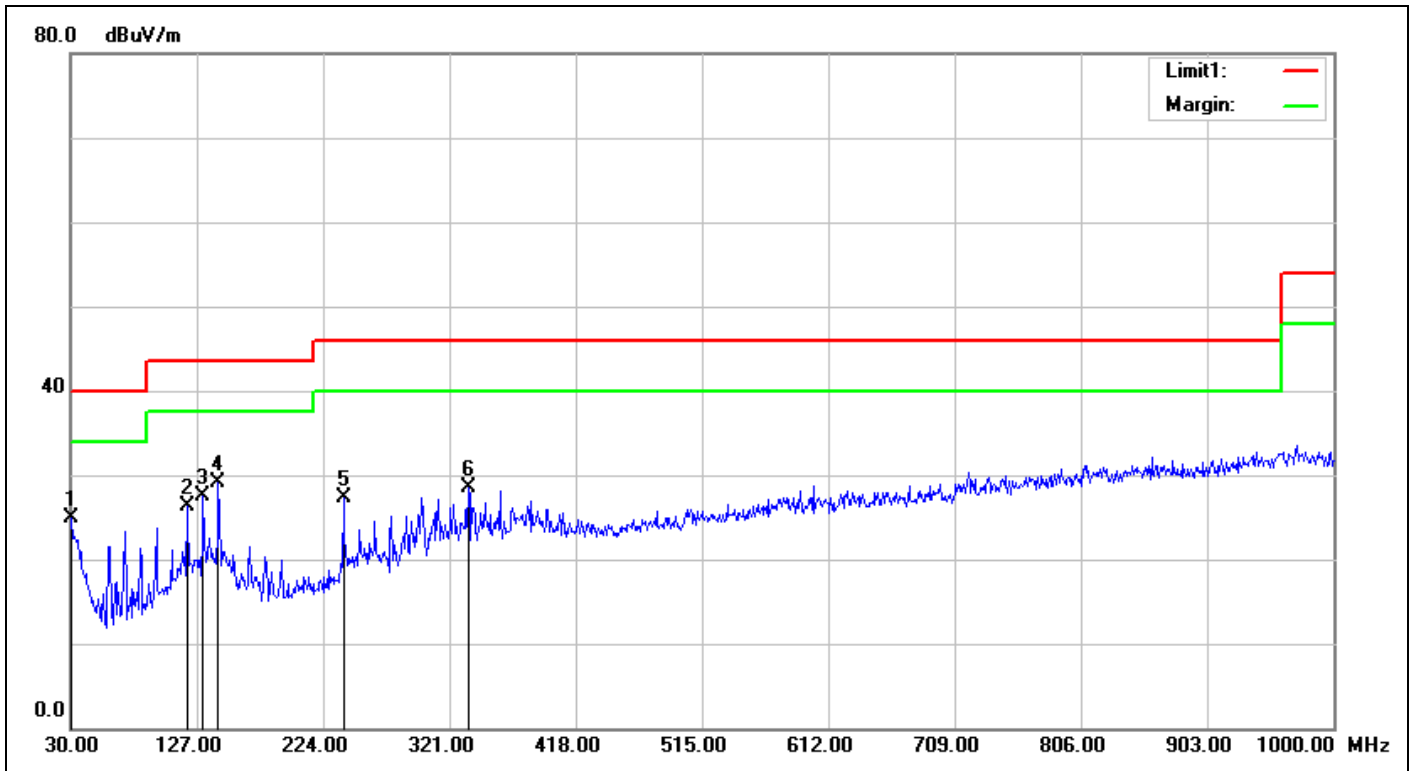
Spurious Emissions, RX Mode, 30M-1G



TUV Rheinland Taiwan Ltd.

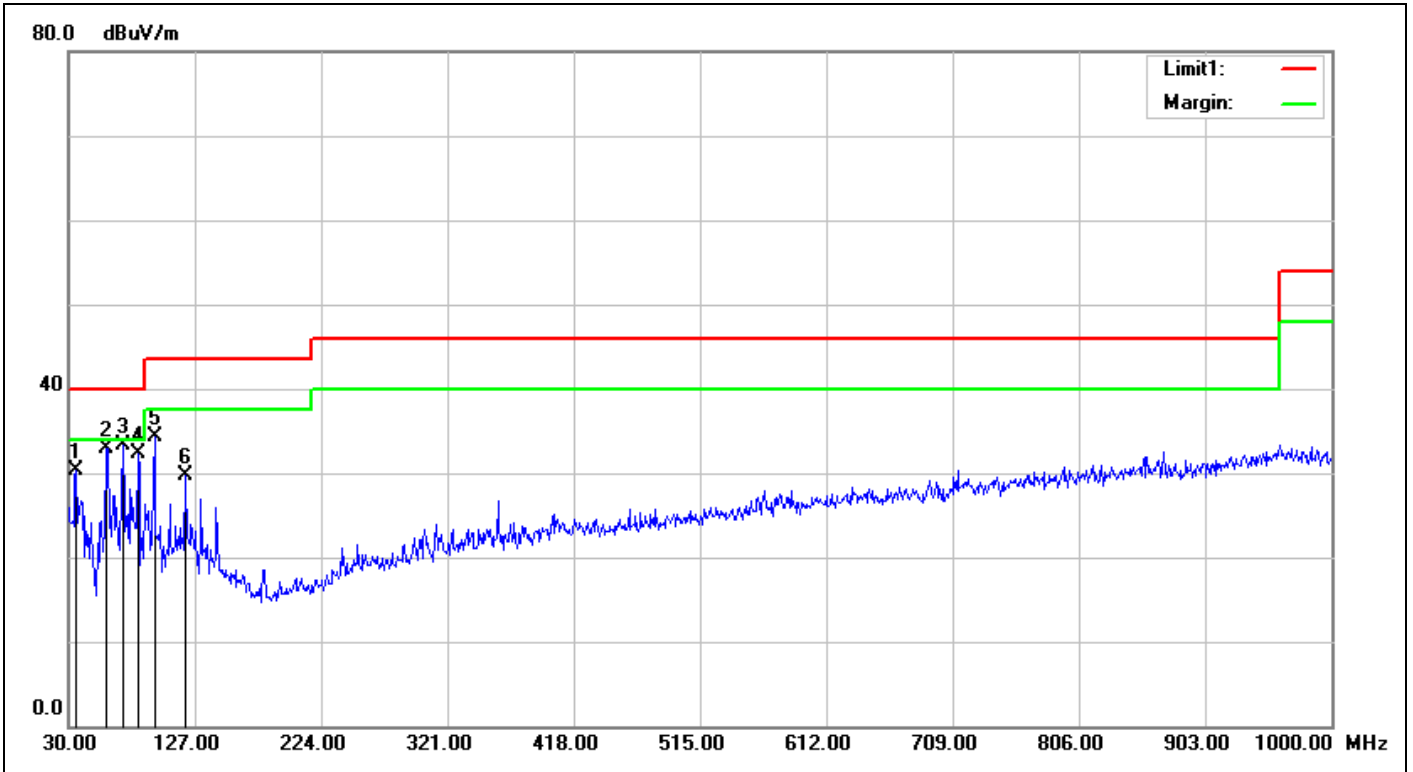
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Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2019/1/21 20:34:35
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	-0.51	25.48	24.97	40.00	-15.03	QP	100	302	
2	119.2400	-7.46	33.72	26.26	43.50	-17.24	QP	100	134	
3	131.8500	-7.06	34.64	27.58	43.50	-15.92	QP	100	289	
4	143.4900	-7.02	36.03	29.01	43.50	-14.49	QP	100	302	
5	239.5200	-6.78	34.16	27.38	46.00	-18.62	QP	100	144	
6	335.5500	-3.73	32.23	28.50	46.00	-17.50	QP	100	138	



Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2019/1/21 20:35:28
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	35.8200	-3.37	33.71	30.34	40.00	-9.66	QP	100	78	
2	59.1000	-13.69	46.52	32.83	40.00	-7.17	QP	100	15	
3	71.7100	-12.83	46.14	33.31	40.00	-6.69	QP	100	114	
4	83.3500	-11.58	43.89	32.31	40.00	-7.69	QP	100	114	
5	95.9600	-10.14	44.50	34.36	43.50	-9.14	QP	100	265	
6	119.2400	-7.46	37.11	29.65	43.50	-13.85	QP	100	173	

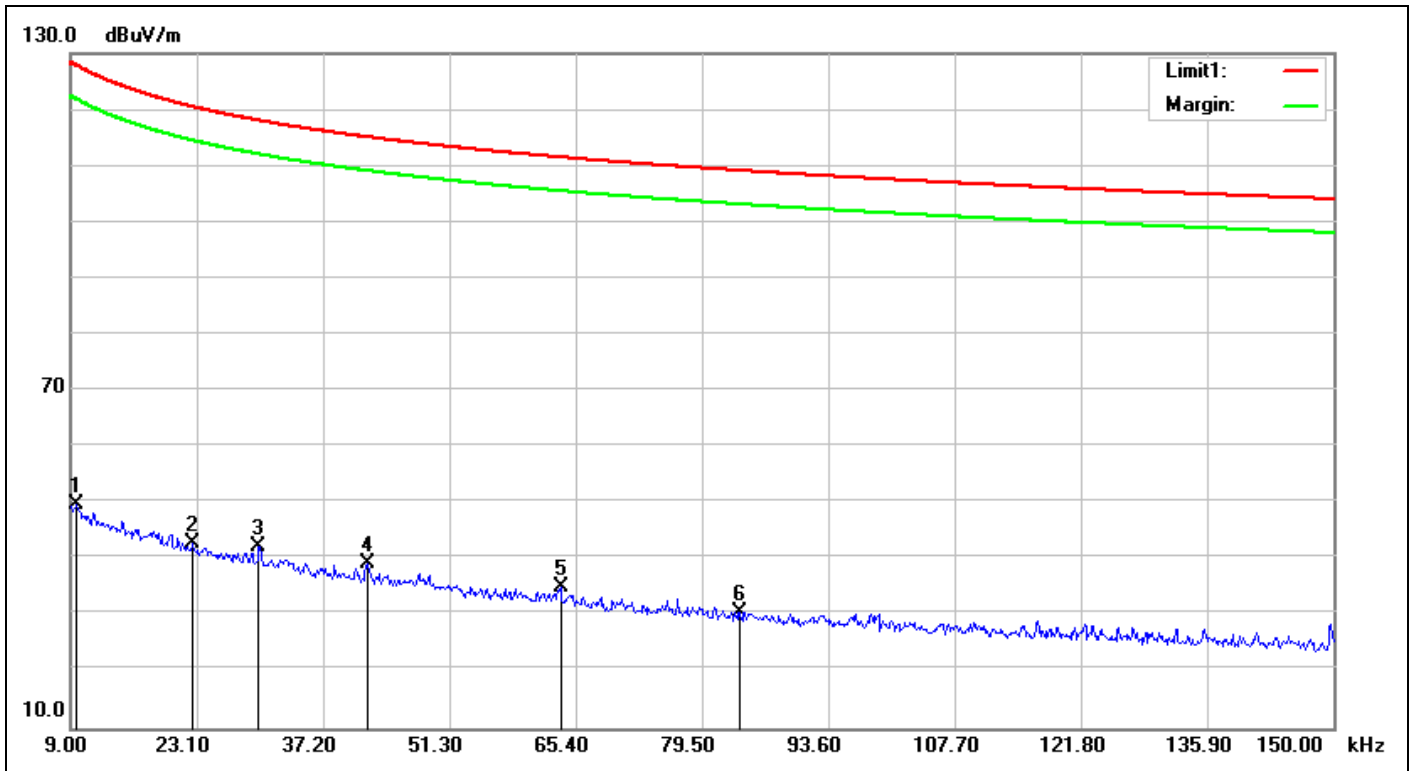
Spurious Emissions, RX Mode, 9K-30M



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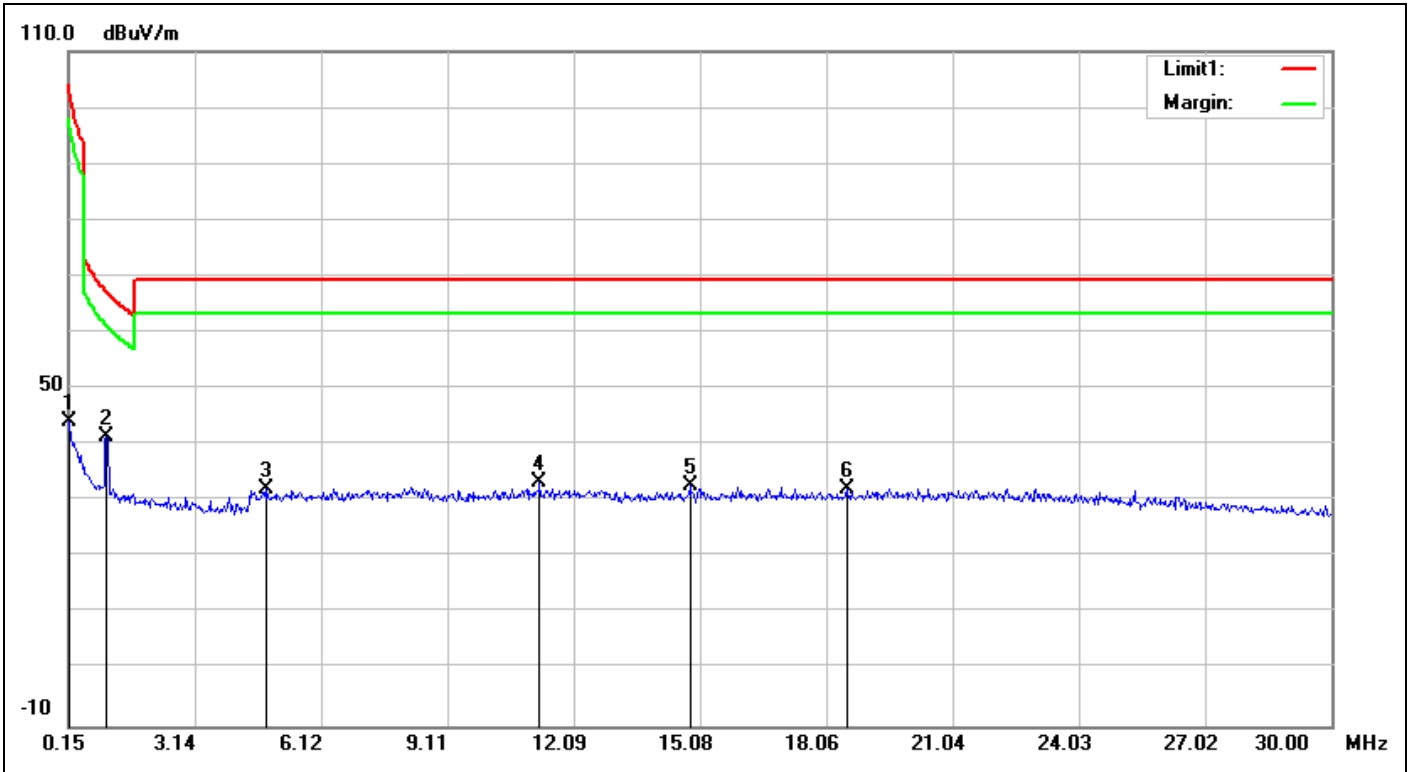
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Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/1/21 20:43:36
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0097	18.46	31.29	49.75	127.85	-78.10	QP	100	90	
2	0.0227	19.03	23.75	42.78	120.47	-77.69	QP	100	341	
3	0.0300	19.32	22.85	42.17	118.05	-75.88	QP	100	344	
4	0.0421	19.08	20.17	39.25	115.11	-75.86	QP	100	223	
5	0.0637	18.76	16.17	34.93	111.51	-76.58	QP	100	344	
6	0.0837	18.52	12.17	30.69	109.14	-78.45	QP	100	103	



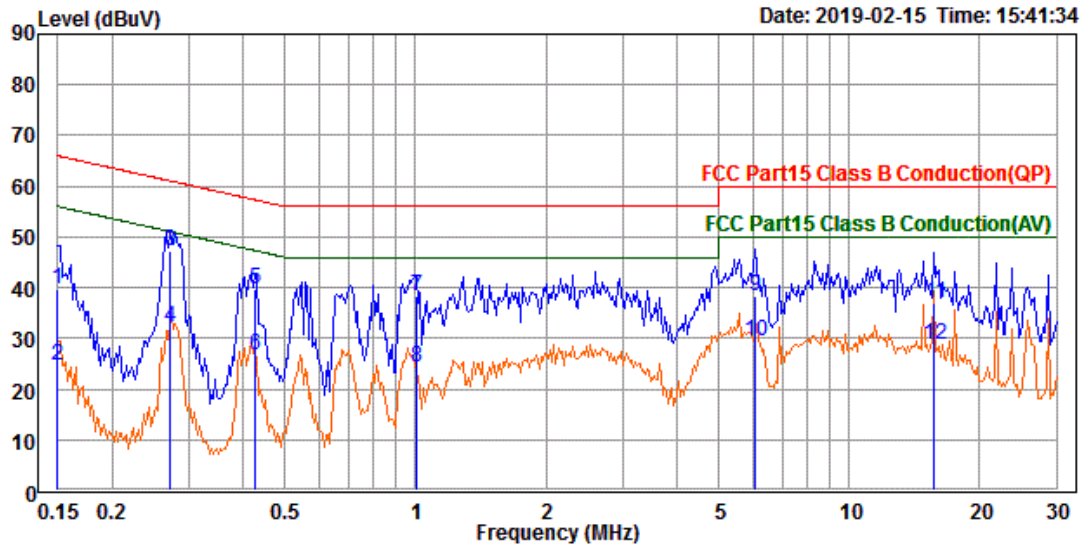
Service No.:	238100815	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2019/1/21 20:46:12
Applicant:	H.P.B. HI-TECH CORP.	Test Rating:	DC 9V
Product:	Hand Gesture Controller	Temp.(°C)/Hum.(%):	19(°C)/65%
Model No.:	Wave1210	Test Engineer:	Curry Chen
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1500	18.36	25.75	44.11	104.08	-59.97	QP	100	50	
2	1.0455	18.68	22.87	41.55	67.24	-25.69	QP	100	241	
3	4.8365	19.40	12.70	32.10	69.50	-37.40	QP	100	40	
4	11.2841	20.59	12.73	33.32	69.50	-36.18	QP	100	187	
5	14.8362	21.00	11.70	32.70	69.50	-36.80	QP	100	307	
6	18.5376	21.44	10.71	32.15	69.50	-37.35	QP	100	192	

Spurious Emissions, AC Mains

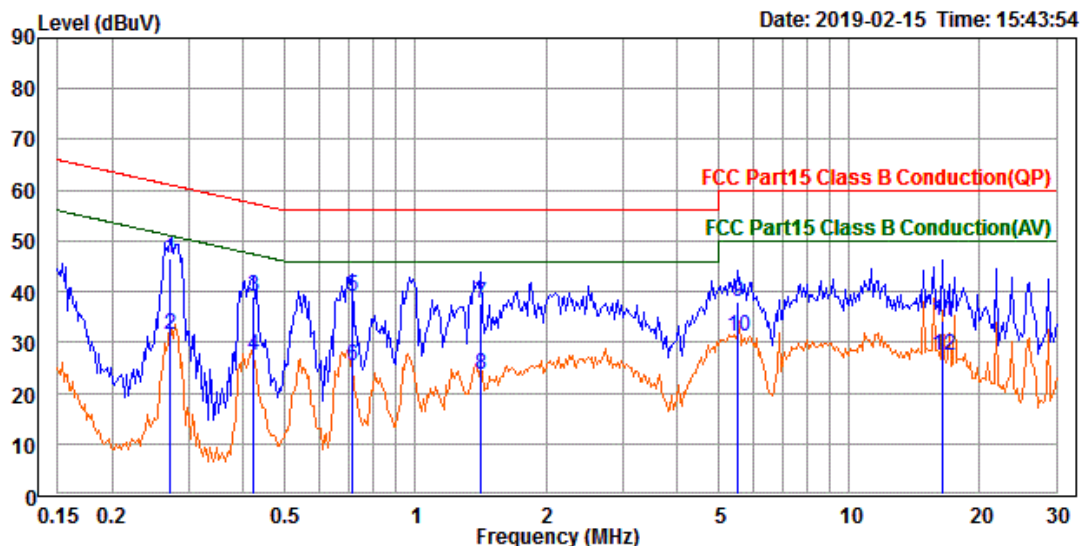


TUV Rheinland Taiwan Ltd.
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Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) line1
 Test Engineer: Amy Hsu
 Applicant : H.P.B. HI-TECH CORP.
 Product : Hand Gesture Controller
 Model No. : Wave1210
 Test Rating : 120Vac/60Hz
 Tmp/Hum : 22.3°C/53%
 Memo :

	Read Freq	Read Level	Factor	Limit Level	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dB	
1	0.150	30.07	9.68	39.75	66.00	-26.25 QP
2	0.150	14.98	9.68	24.66	56.00	-31.34 Average
3	0.272	37.66	9.68	47.34	61.05	-13.71 QP
4	0.272	22.38	9.68	32.06	51.05	-18.99 Average
5	0.426	29.84	9.69	39.53	57.33	-17.80 QP
6	0.426	16.97	9.69	26.66	47.33	-20.67 Average
7	1.002	28.57	9.70	38.27	56.00	-17.73 QP
8	1.002	14.56	9.70	24.26	46.00	-21.74 Average
9	6.054	28.50	9.78	38.28	60.00	-21.72 QP
10	6.054	19.58	9.78	29.36	50.00	-20.64 Average
11	15.722	27.22	9.84	37.06	60.00	-22.94 QP
12	15.722	18.88	9.84	28.72	50.00	-21.28 Average



Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Amy Hsu
 Applicant : H.P.B. HI-TECH CORP.
 Product : Hand Gesture Controller
 Model No. : Wave1210
 Test Rating : 120Vac/60Hz
 Tmp/Hum : 22.3°C/53%
 Memo :

	Read Freq	Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.272	36.97	9.68	46.65	61.05	-14.40	QP
2	0.272	21.85	9.68	31.53	51.05	-19.52	Average
3	0.422	29.47	9.68	39.15	57.41	-18.26	QP
4	0.422	17.56	9.68	27.24	47.41	-20.17	Average
5	0.714	29.35	9.69	39.04	56.00	-16.96	QP
6	0.714	15.47	9.69	25.16	46.00	-20.84	Average
7	1.418	28.04	9.71	37.75	56.00	-18.25	QP
8	1.418	13.77	9.71	23.48	46.00	-22.52	Average
9	5.536	28.23	9.77	38.00	60.00	-22.00	QP
10	5.536	21.45	9.77	31.22	50.00	-18.78	Average
11	16.360	24.32	9.89	34.21	60.00	-25.79	QP
12	16.360	17.45	9.89	27.34	50.00	-22.66	Average