

Test Report No.50285837 001,50285839 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50285837 001,50285839 001AppendixD)

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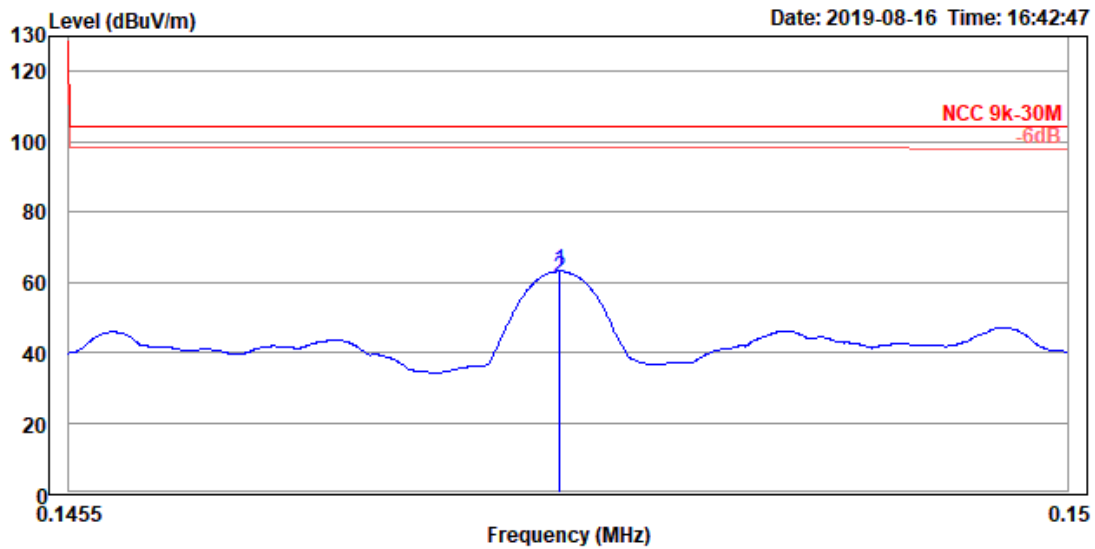
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Emissions, Fundamental



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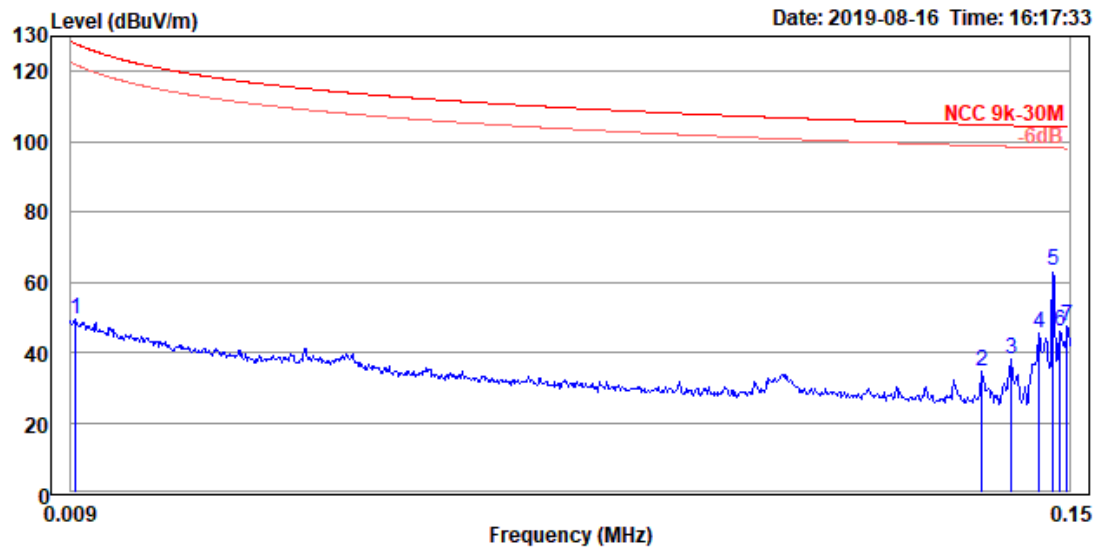
Site : 966A Chamber A
Condition : NCC 9k-30M 3m Vertical
Test Engineer: Amy Hsu
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : DC 5V
Tmp/Hum : 22°C / 56%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

		Read			Limit	Over	APos	TPos		
	Freq	Level	Factor	Level	Line	Limit			Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.148	45.19	17.90	63.09	104.21	-41.12	100	128	Peak	
2	0.148	43.25	17.90	61.15	104.21	-43.06	100	128	Average	

Spurious Emissions, TX Mode, 9-150 kHz



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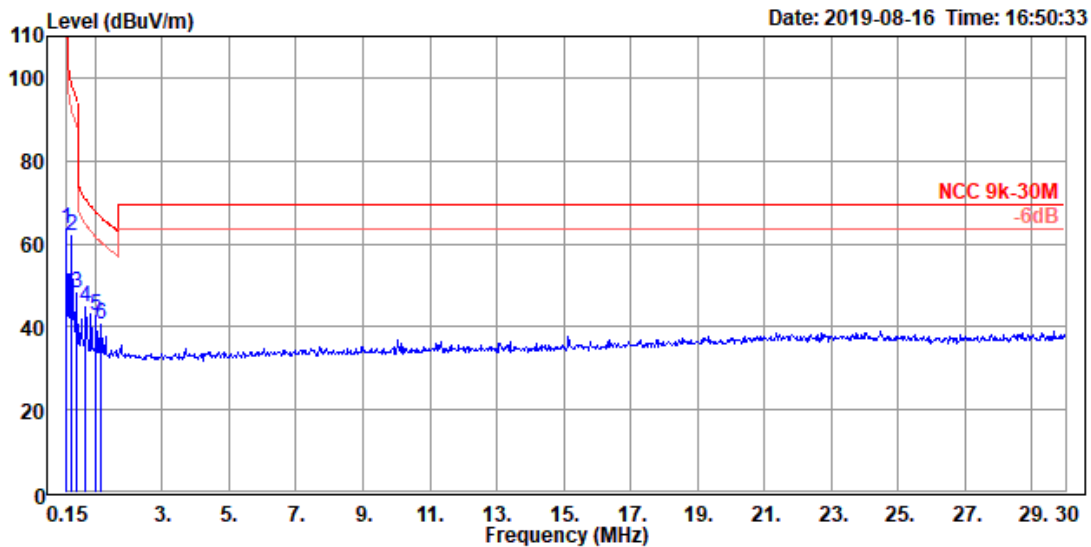
Site : 966A Chamber A
Condition : NCC 9k-30M 3m Vertical
Test Engineer: Amy Hsu
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : DC 5V
Tmp/Hum : 22°C / 56%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

	Freq	Read Level	Factor	Level	Limit	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.010	31.46	18.03	49.49	127.97	-78.48	100	152	QP	
2	0.138	16.50	17.86	34.36	104.82	-70.46	100	138	QP	
3	0.142	20.24	17.88	38.12	104.57	-66.45	100	224	QP	
4	0.146	27.64	17.89	45.53	104.32	-58.79	100	237	QP	
5	0.148	45.40	17.90	63.30	104.21	-40.91	100	241	QP	TX
6	0.149	28.24	17.90	46.14	104.15	-58.01	100	149	QP	
7	0.150	29.44	17.91	47.35	104.09	-56.74	100	130	QP	

Spurious Emissions, TX Mode, 150 kHz -30MHz



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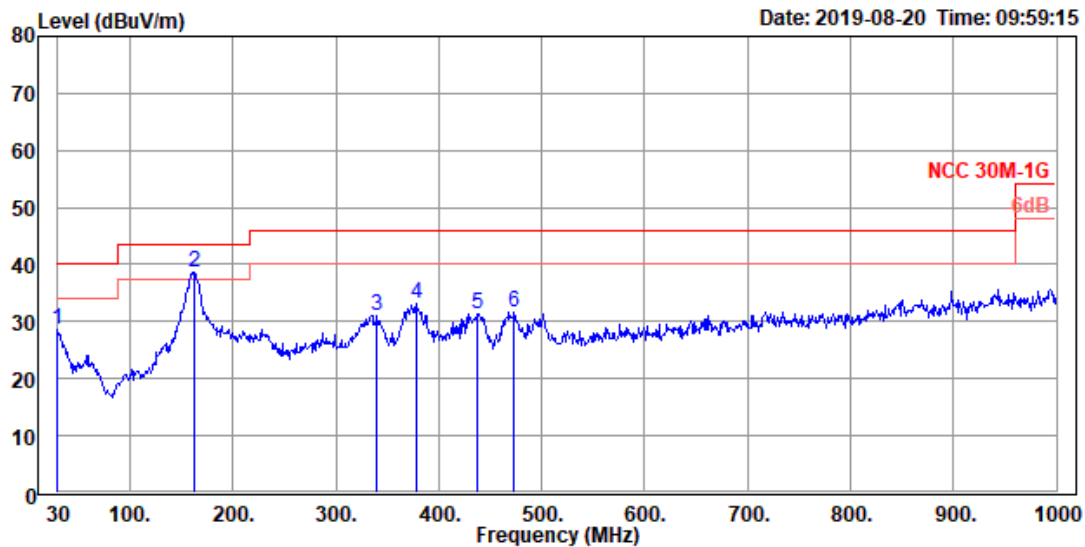
Site : 966A Chamber A
Condition : NCC 9k-30M 3m Vertical
Test Engineer: Amy Hsu
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : DC 5V
Tmp/Hum : 22°C / 56%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.150	45.67	17.91	63.58	104.08	-40.50	100	159	QP	
2	0.269	43.34	18.41	61.75	98.99	-37.24	100	163	QP	
3	0.419	29.54	18.48	48.02	95.17	-47.15	100	167	QP	
4	0.717	26.02	18.54	44.56	70.50	-25.94	100	247	QP	
5	1.016	24.01	18.66	42.67	67.49	-24.82	100	136	QP	
6	1.165	21.93	18.65	40.58	66.30	-25.72	100	138	QP	

Spurious Emissions, TX Mode, 30MHz-1GHz

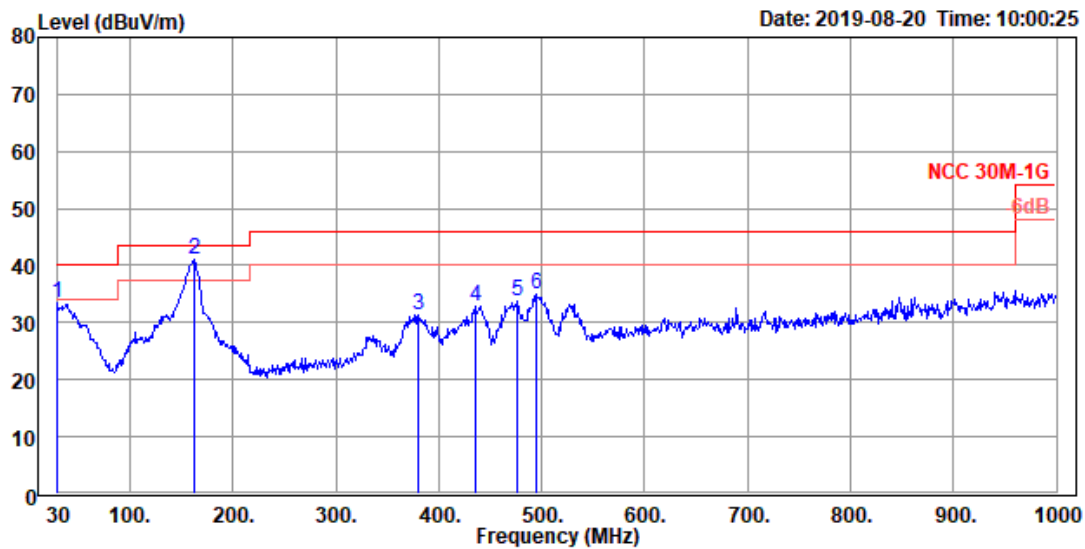


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Site : 966A Chamber A
Condition : NCC 30M-1G 3m horizontal
Test Engineer: Curry Chen
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : DC 5V
Tmp/Hum : 20°C / 62%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

		Read		Limit	Over	APos	TPos		
	Freq	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.000	28.45	0.02	28.47	40.00	-11.53	100	230	QP
2 !	162.890	46.92	-8.19	38.73	43.50	-4.77	100	248	QP
3	340.400	34.70	-3.60	31.10	46.00	-14.90	100	248	QP
4	378.230	36.03	-3.00	33.03	46.00	-12.97	100	131	QP
5	437.400	33.63	-2.17	31.46	46.00	-14.54	100	230	QP
6	473.290	33.43	-1.72	31.71	46.00	-14.29	100	223	QP



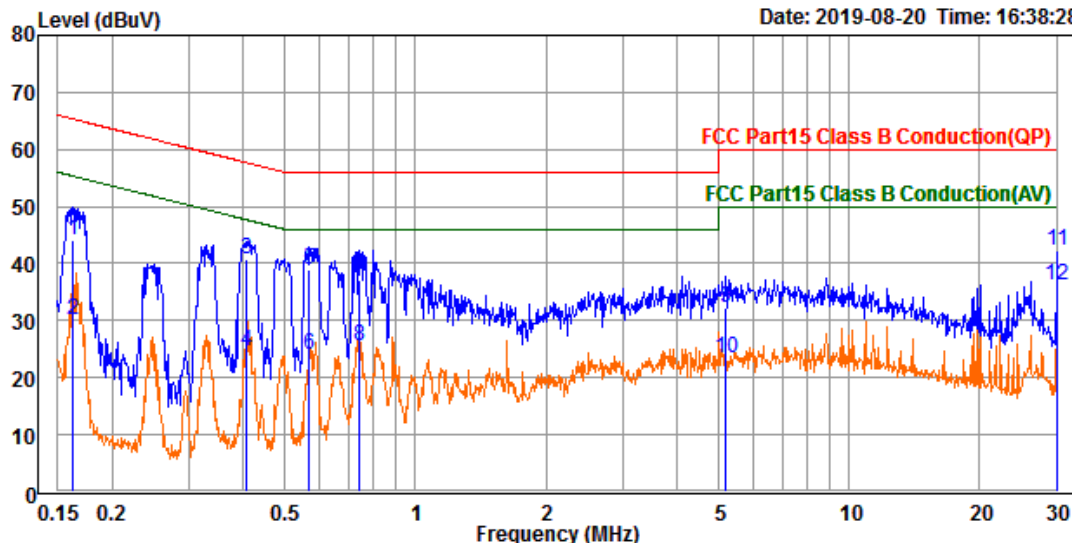
Site : 966A Chamber A
Condition : NCC 30M-1G 3m vertical
Test Engineer: Curry Chen
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : DC 5V
Tmp/Hum : 20°C / 62%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

		Read		Limit	Over	APos	TPos		
	Freq	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.000	33.48	0.02	33.50	40.00	-6.50	100	360	QP
2 !	161.920	49.27	-8.18	41.09	43.50	-2.41	100	57	QP
3	380.170	34.42	-2.95	31.47	46.00	-14.53	100	231	QP
4	435.460	35.16	-2.17	32.99	46.00	-13.01	100	199	QP
5	476.200	35.31	-1.68	33.63	46.00	-12.37	100	215	QP
6	494.630	36.31	-1.32	34.99	46.00	-11.01	100	123	QP

Mains Spurious Emissions

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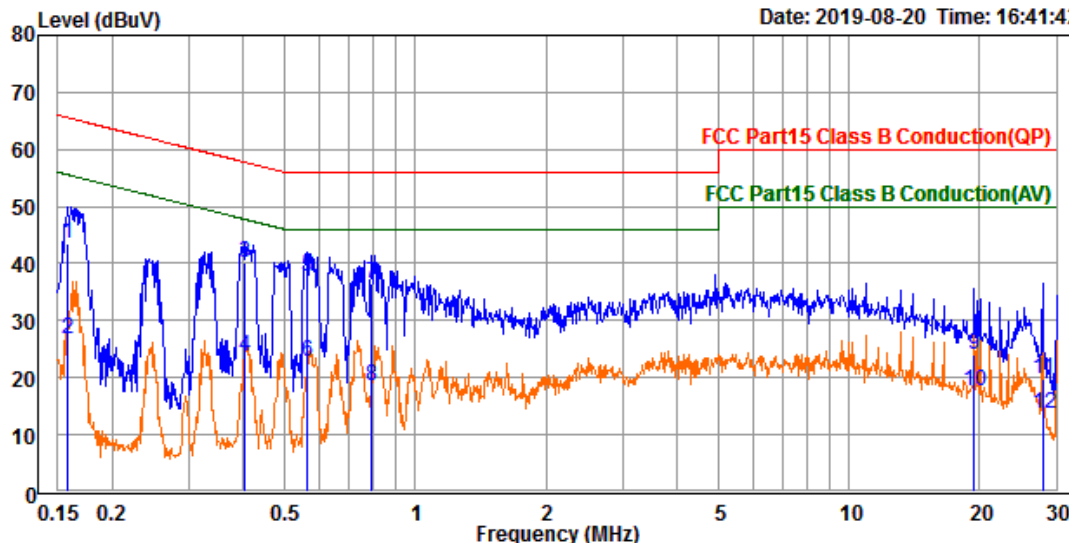
Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Curry Chen
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : 120Vac/60Hz
Tmp/Hum : 23.4°C / 39%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	34.57	9.61	44.18	65.38	-21.20	QP
2	0.162	20.48	9.61	30.09	55.38	-25.29	Average
3	0.406	31.23	9.62	40.85	57.72	-16.87	QP
4	0.406	15.08	9.62	24.70	47.72	-23.02	Average
5	0.570	29.34	9.62	38.96	56.00	-17.04	QP
6	0.570	14.36	9.62	23.98	46.00	-22.02	Average
7	0.743	27.49	9.62	37.11	56.00	-18.89	QP
8	0.743	15.88	9.62	25.50	46.00	-20.50	Average
9	5.190	22.44	9.68	32.12	60.00	-27.88	QP
10	5.190	13.89	9.68	23.57	50.00	-26.43	Average
11	30.000	32.39	9.76	42.15	60.00	-17.85	QP
12	30.000	26.56	9.76	36.32	50.00	-13.68	Average

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Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Curry Chen
Product : HyperX ChargePlay Clutch Mobile
Model No. : HX-CPCM-U
Test Rating : 120Vac/60Hz
Tmp/Hum : 23.4°C / 39%
Power Setting: default
Mode : WPC TX
Memo : Z(平躺)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.158	33.76	9.62	43.38	65.54	-22.16	QP
2	0.158	17.20	9.62	26.82	55.54	-28.72	Average
3	0.404	30.44	9.63	40.07	57.76	-17.69	QP
4	0.404	14.15	9.63	23.78	47.76	-23.98	Average
5	0.565	27.96	9.63	37.59	56.00	-18.41	QP
6	0.565	13.04	9.63	22.67	46.00	-23.33	Average
7	0.793	26.83	9.63	36.46	56.00	-19.54	QP
8	0.793	8.90	9.63	18.53	46.00	-27.47	Average
9	19.444	14.21	9.83	24.04	60.00	-35.96	QP
10	19.444	7.69	9.83	17.52	50.00	-32.48	Average
11	27.978	9.79	9.84	19.63	60.00	-40.37	QP
12	27.978	3.92	9.84	13.76	50.00	-36.24	Average