

Test Report No.50306368 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50306368 001AppendixD)

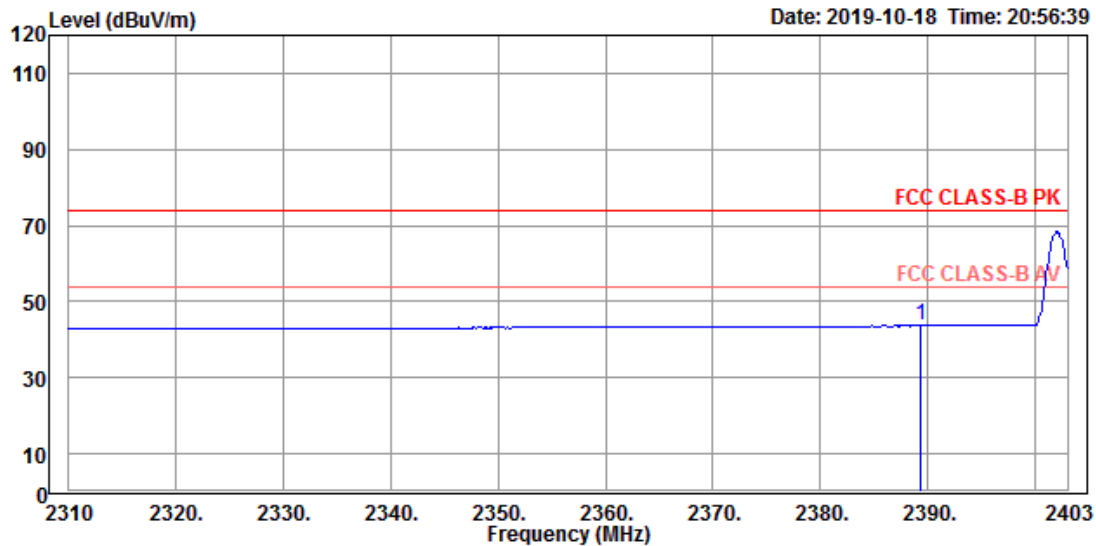
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Spurious Emissions, Band Edges

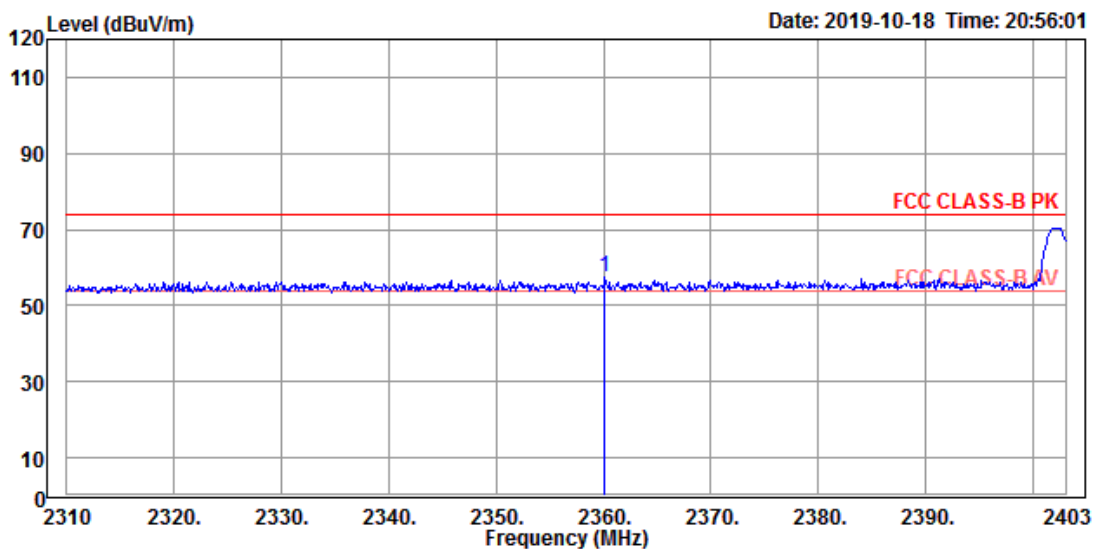


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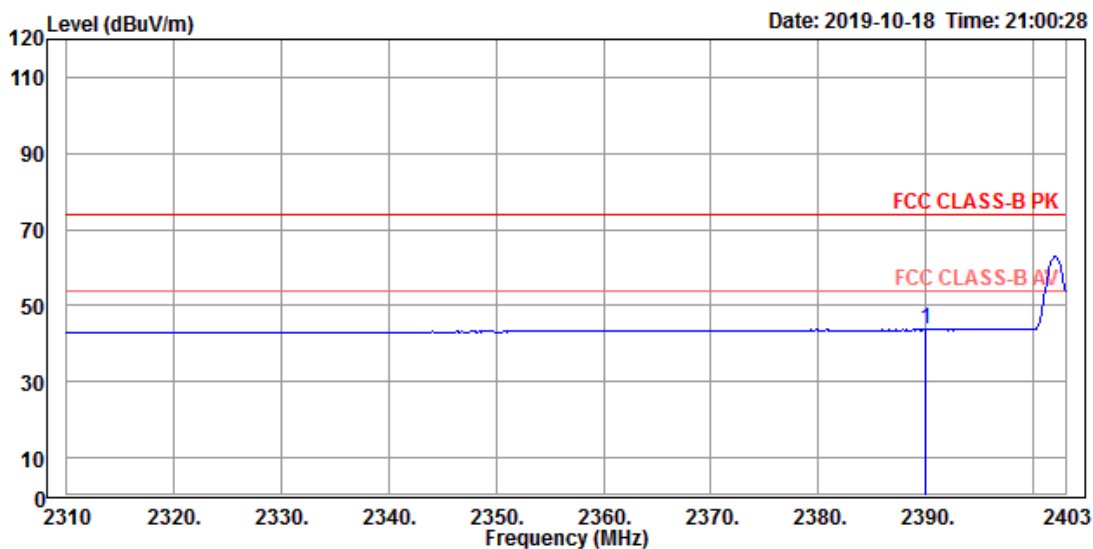
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 2389.329	5.51	38.13	43.64	54.00	-10.36	216	250 Average



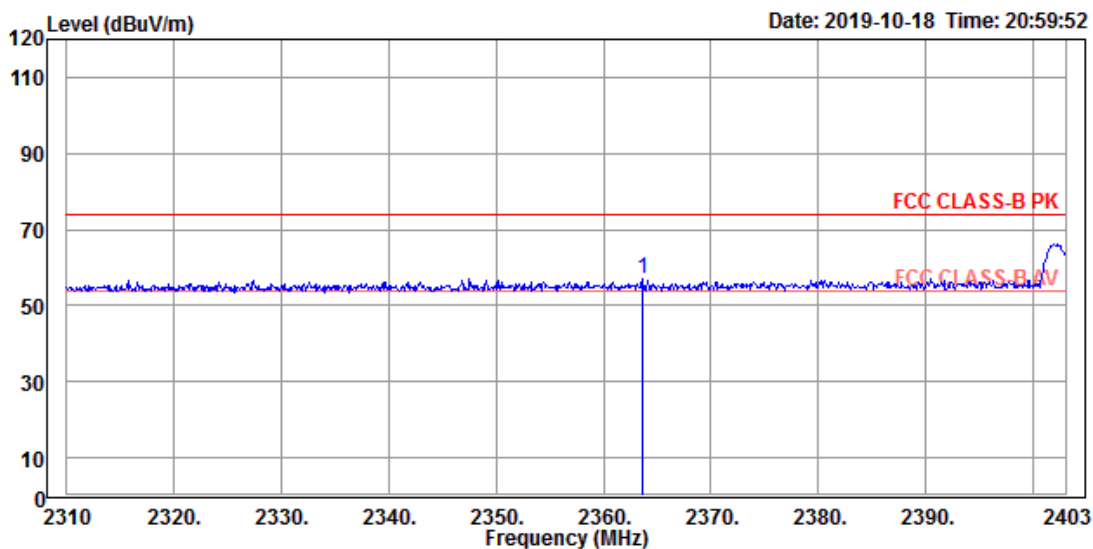
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2360.127	19.53	37.97	57.50	74.00	-16.50	216	250 Peak



Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2389.980	5.49	38.13	43.62	54.00	-10.38	307	234 Average



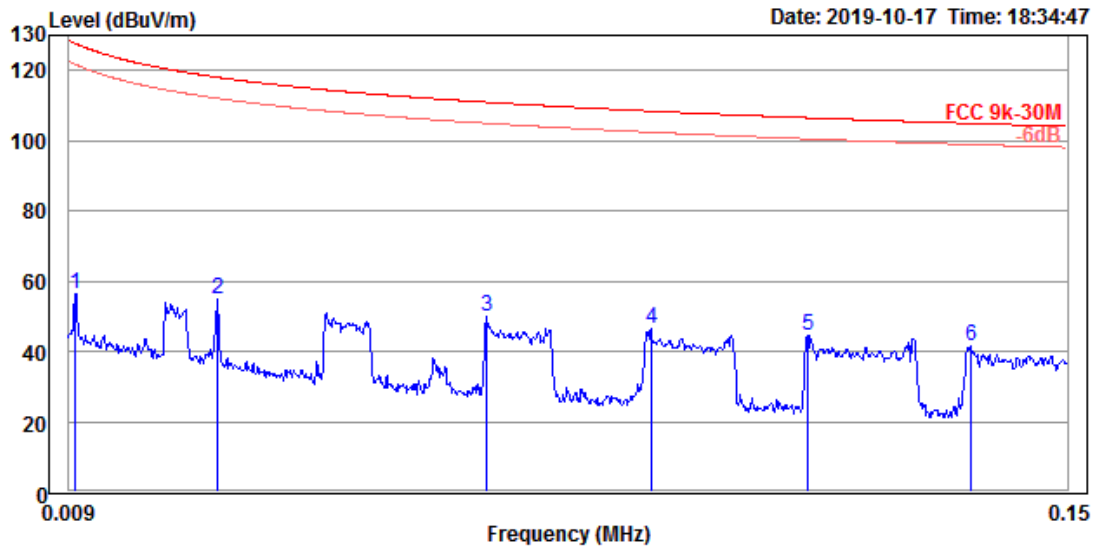
Site : 966B Chamber B
 Condition : FCC CLASS-B PK 3m Vertical
 Test Engineer: Simon Tsai
 Product : FITGRIP
 Model NO : SR01
 Mode : TX_2M_2402
 Power setting: P_m10dBm
 Test Rating : DC 5V
 Tmp/Hum : 24.2°C/67%
 Plane : X

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2363.568	19.02	37.99	57.01	74.00	-16.99	307	234 Peak

Spurious Emissions, TX Mode, 9kHz-30MHz

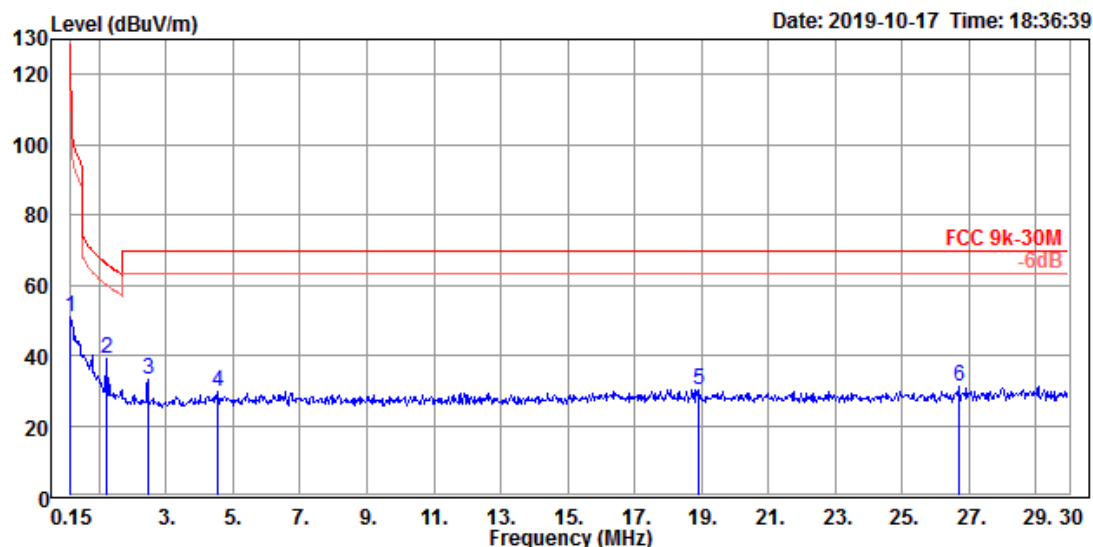


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Site : 966B Chamber B
Condition : FCC 9k-30M 3m horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	0.010	38.35	18.01	56.36	127.72	-71.36	100	52	QP
2	0.030	36.17	18.93	55.10	118.09	-62.99	100	88	QP
3	0.068	31.68	18.42	50.10	110.93	-60.83	100	79	QP
4	0.091	28.47	17.86	46.33	108.40	-62.07	100	185	QP
5	0.113	26.58	17.70	44.28	106.51	-62.23	100	144	QP
6	0.136	23.79	17.80	41.59	104.90	-63.31	100	289	QP



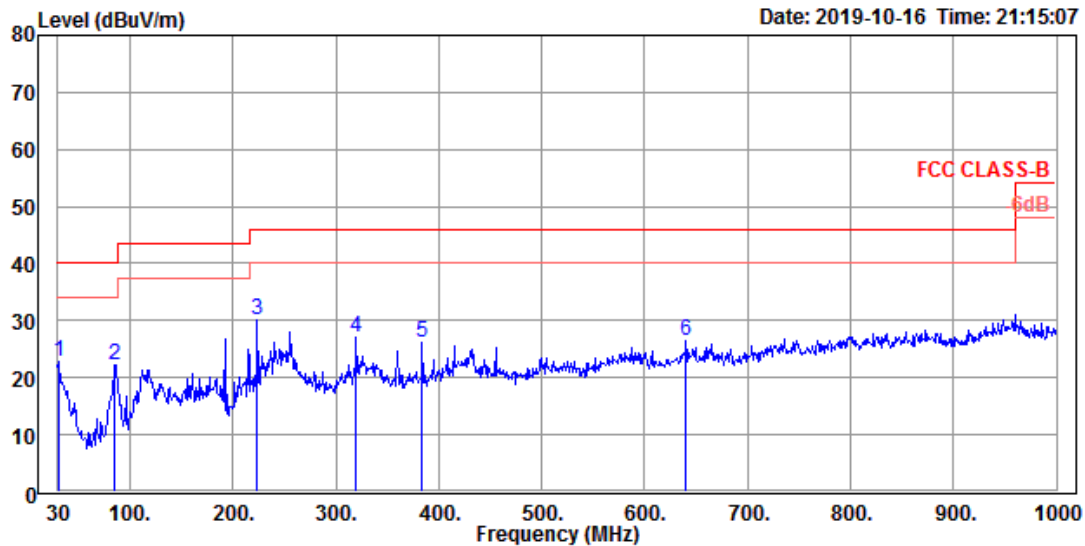
Site : 966B Chamber B
Condition : FCC 9k-30M 3m horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	0.150	32.99	17.85	50.84	104.08	-53.24	100	306	QP
2	1.225	20.27	18.60	38.87	65.87	-27.00	100	85	QP
3	2.448	14.68	18.56	33.24	69.50	-36.26	100	143	QP
4	4.538	10.67	19.12	29.79	69.50	-39.71	100	191	QP
5	18.926	9.01	21.20	30.21	69.50	-39.29	100	199	QP
6	26.717	9.70	21.62	31.32	69.50	-38.18	100	0	QP

Spurious Emissions, TX Mode, 30MHz-1GHz

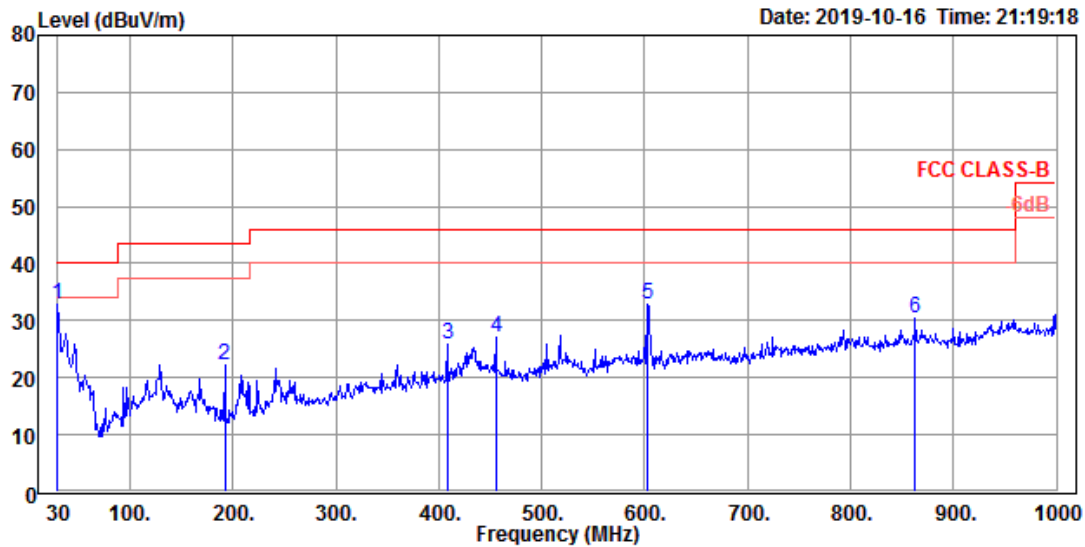


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Site : 966B Chamber B
Condition : FCC CLASS-B 3m horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.970	34.42	-11.67	22.75	40.00	-17.25	100	168	QP
2	85.290	44.54	-22.33	22.21	40.00	-17.79	200	169	QP
3	224.000	49.54	-19.33	30.21	46.00	-15.79	100	290	QP
4	320.030	42.89	-15.86	27.03	46.00	-18.97	100	134	QP
5	384.050	40.07	-14.01	26.06	46.00	-19.94	100	239	QP
6	640.130	36.16	-9.59	26.57	46.00	-19.43	100	184	QP



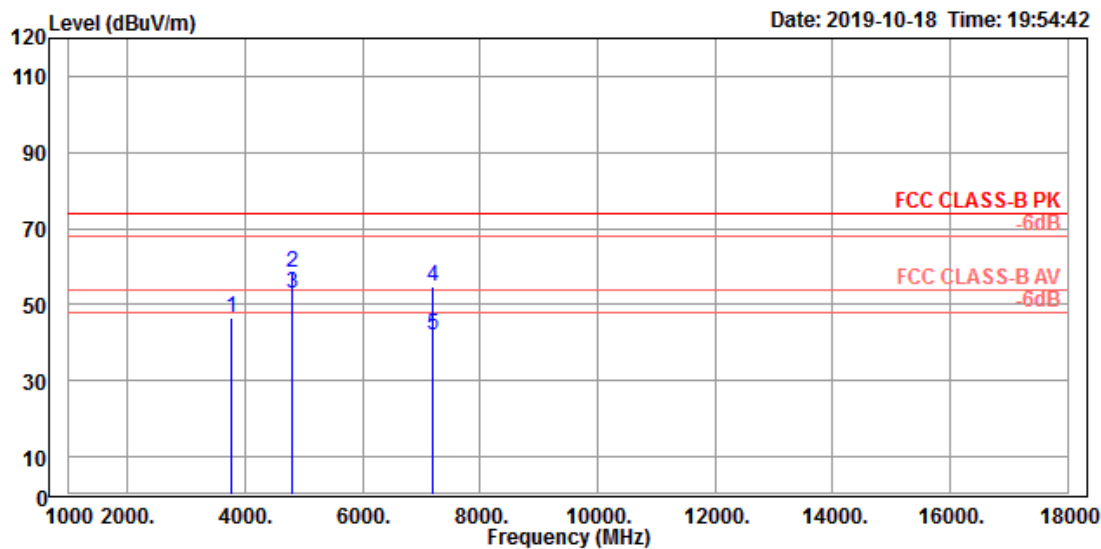
Site : 966B Chamber B
Condition : FCC CLASS-B 3m vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.000	44.12	-11.39	32.73	40.00	-7.27	100	0	QP
2	191.990	42.85	-20.62	22.23	43.50	-21.27	200	150	QP
3	408.300	38.95	-13.21	25.74	46.00	-20.26	100	203	QP
4	455.830	39.72	-12.76	26.96	46.00	-19.04	100	201	QP
5	603.270	43.08	-10.35	32.73	46.00	-13.27	100	30	QP
6	863.230	37.07	-6.64	30.43	46.00	-15.57	100	208	QP

Spurious Emissions, TX Mode, 1GHz-18GHz

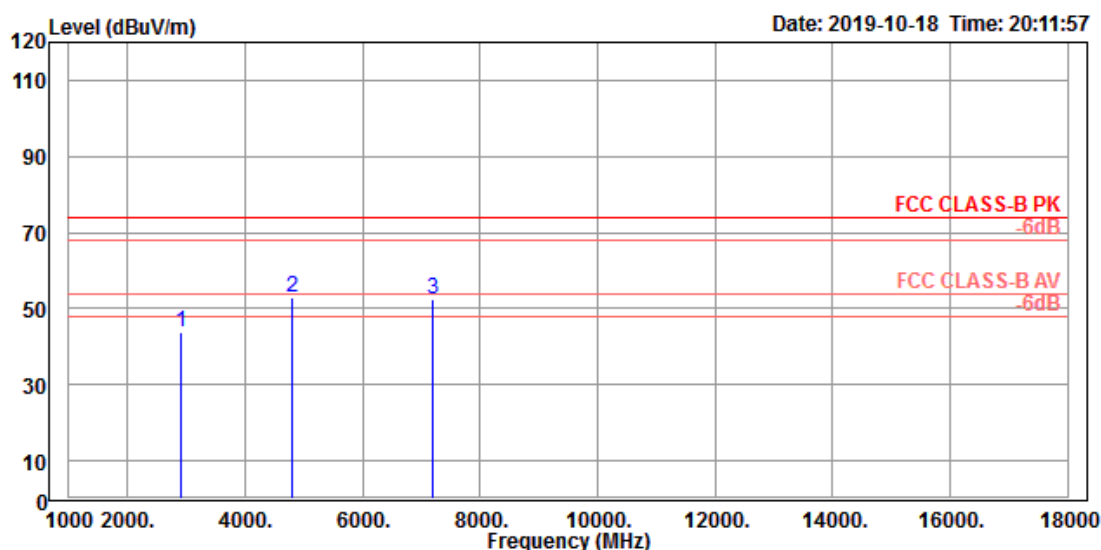


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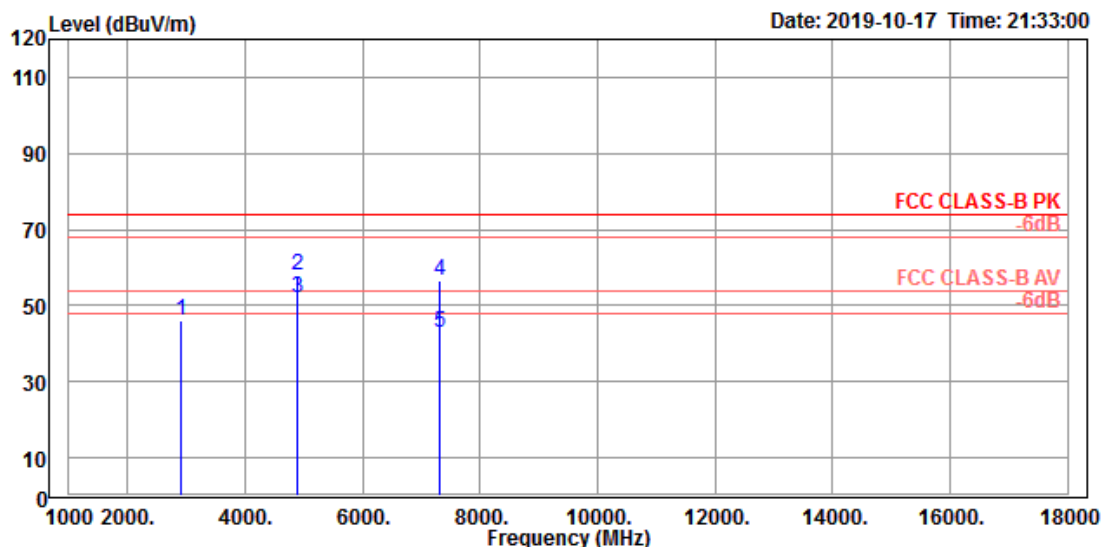
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	3775.000	44.14	2.27	46.41	74.00	-27.59	105	96	Peak
2	4804.000	52.31	5.96	58.27	74.00	-15.73	107	20	Peak
3	4804.000	47.05	5.96	53.01	54.00	-0.99	107	20	Average
4	7206.000	46.46	8.07	54.53	74.00	-19.47	100	33	Peak
5	7206.000	33.75	8.07	41.82	54.00	-12.18	100	33	Average



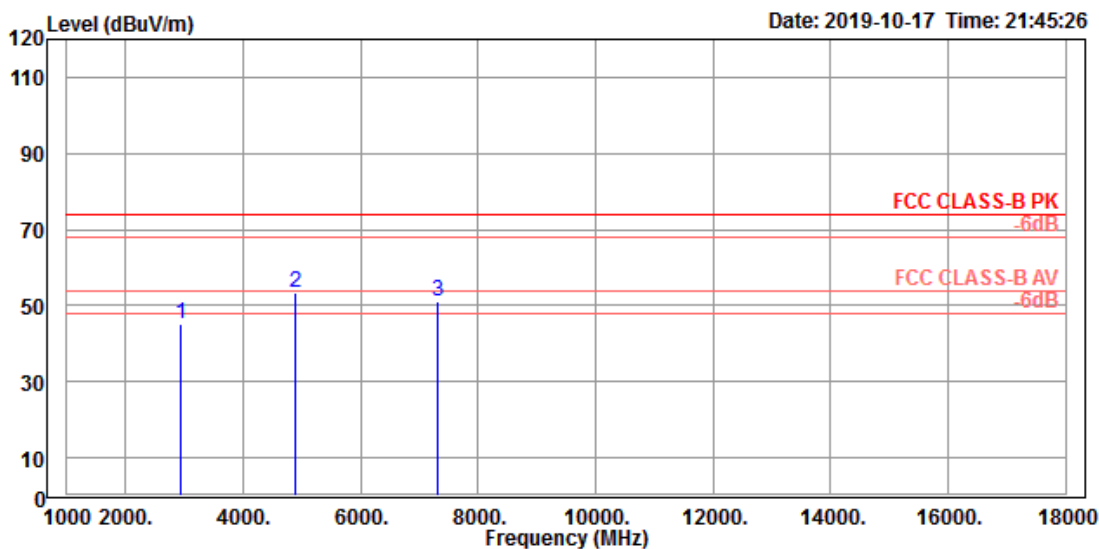
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2917.000	44.14	-0.23	43.91	74.00	-30.09	100	85 Peak
2	4804.000	46.78	5.96	52.74	74.00	-21.26	318	290 Peak
3	7206.000	44.37	8.07	52.44	74.00	-21.56	120	241 Peak



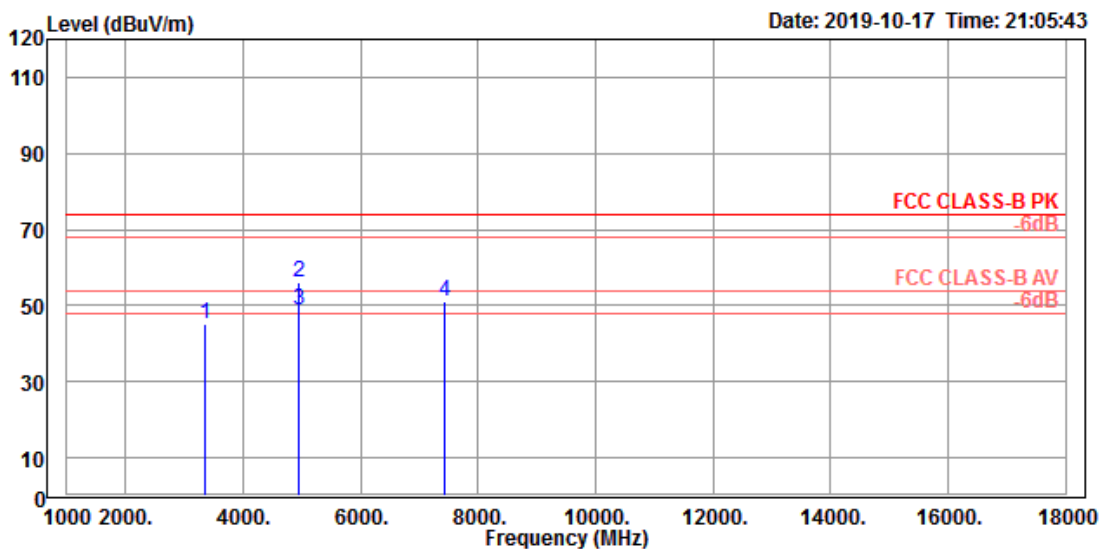
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2917.000	46.12	-0.23	45.89	74.00	-28.11	121	45	Peak
2	4880.000	51.71	6.18	57.89	74.00	-16.11	110	15	Peak
3	4880.000	45.68	6.18	51.86	54.00	-2.14	110	15	Average
4	7320.000	48.58	7.93	56.51	74.00	-17.49	100	155	Peak
5	7320.000	34.78	7.93	42.71	54.00	-11.29	100	155	Average



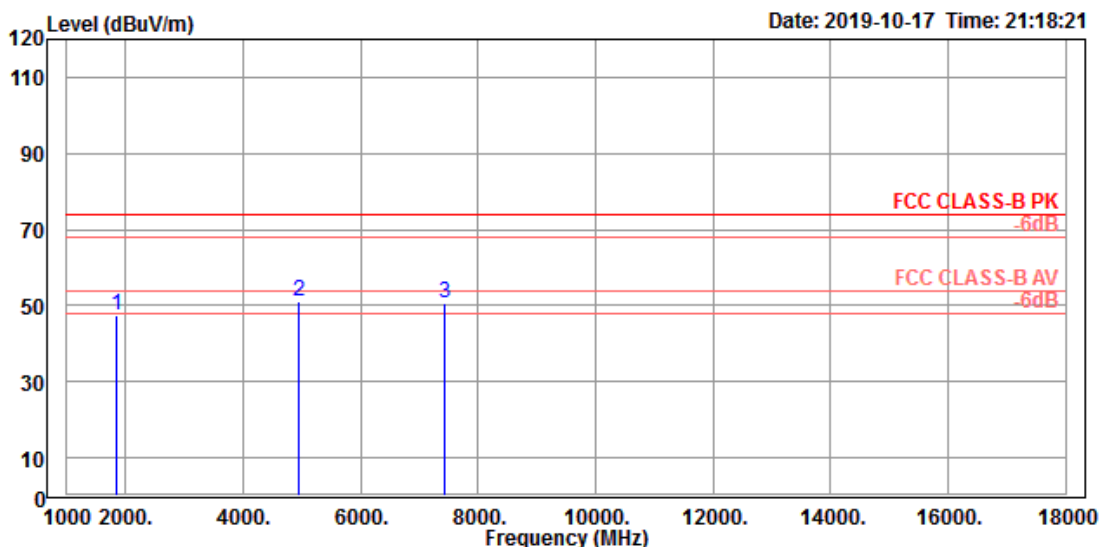
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2924.000	45.16	-0.17	44.99	74.00	-29.01	134	77 Peak
2	4880.000	47.05	6.18	53.23	74.00	-20.77	260	303 Peak
3	7320.000	43.26	7.93	51.19	74.00	-22.81	100	255 Peak



Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2480
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	3340.000	44.06	1.00	45.06	74.00	-28.94	145	89	Peak
2	4960.000	49.53	6.54	56.07	74.00	-17.93	124	31	Peak
3 !	4960.000	42.07	6.54	48.61	54.00	-5.39	124	31	Average
4	7440.000	43.08	7.88	50.96	74.00	-23.04	100	178	Peak



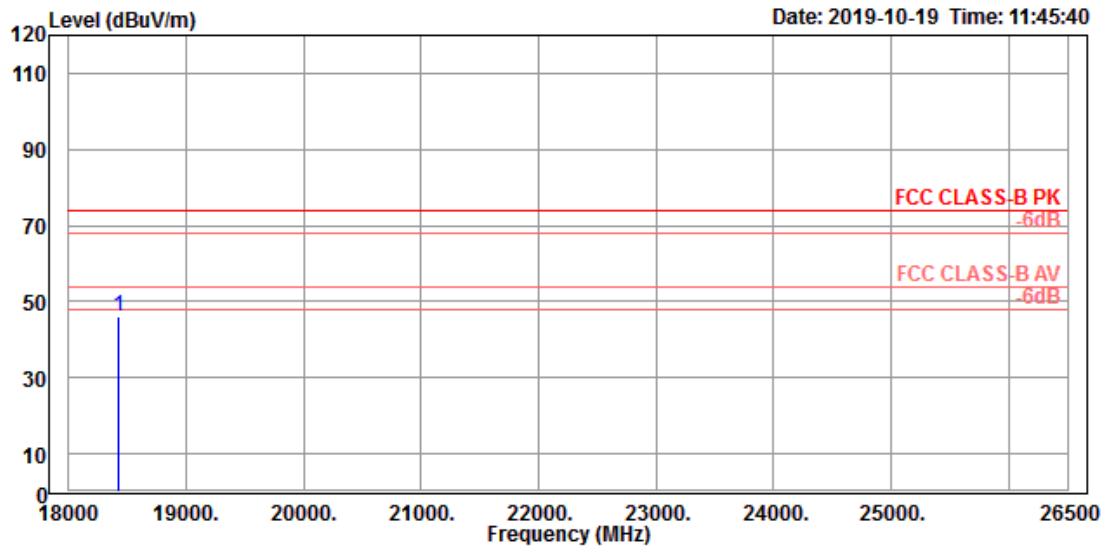
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2480
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

		Read			Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit			Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	1852.000	52.37	-4.89	47.48	74.00	-26.52	112	52	Peak
2	4960.000	44.45	6.54	50.99	74.00	-23.01	100	152	Peak
3	7440.000	42.73	7.88	50.61	74.00	-23.39	100	89	Peak

Spurious Emissions, TX Mode, 18GHz-26.5GHz

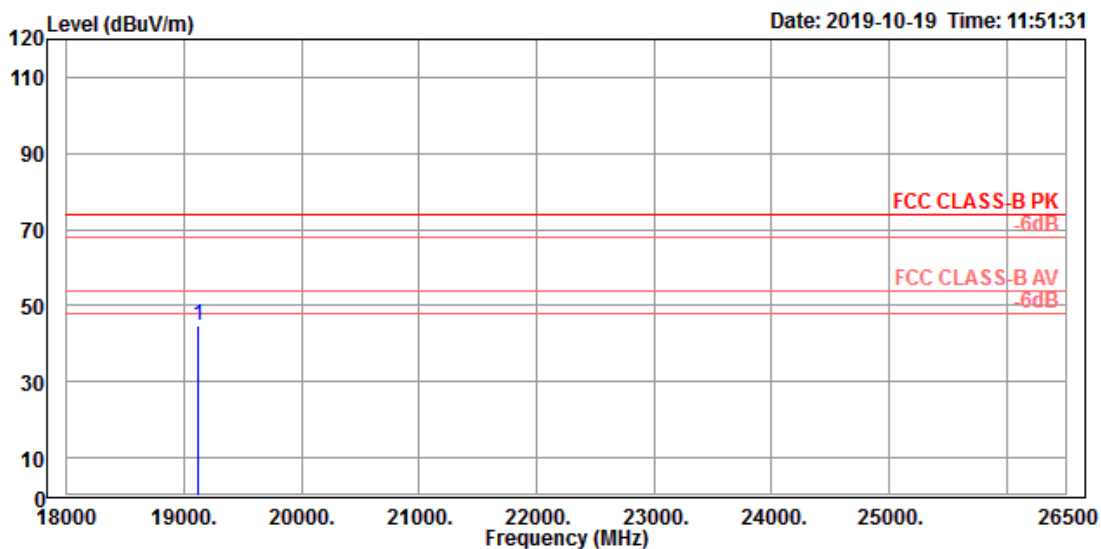


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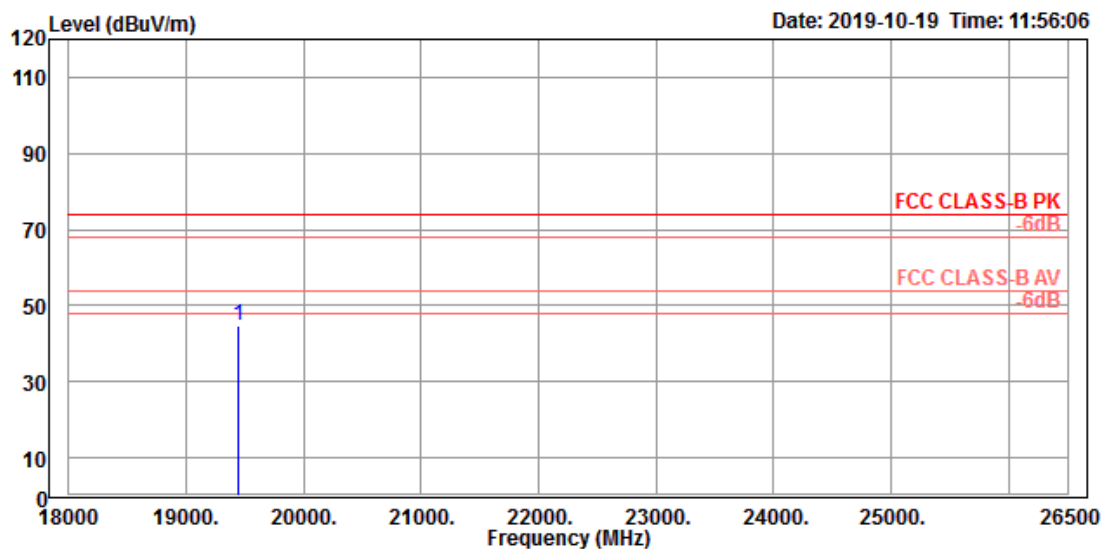
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 18428.500	41.24	4.84	46.08	74.00	-27.92	114	201 Peak



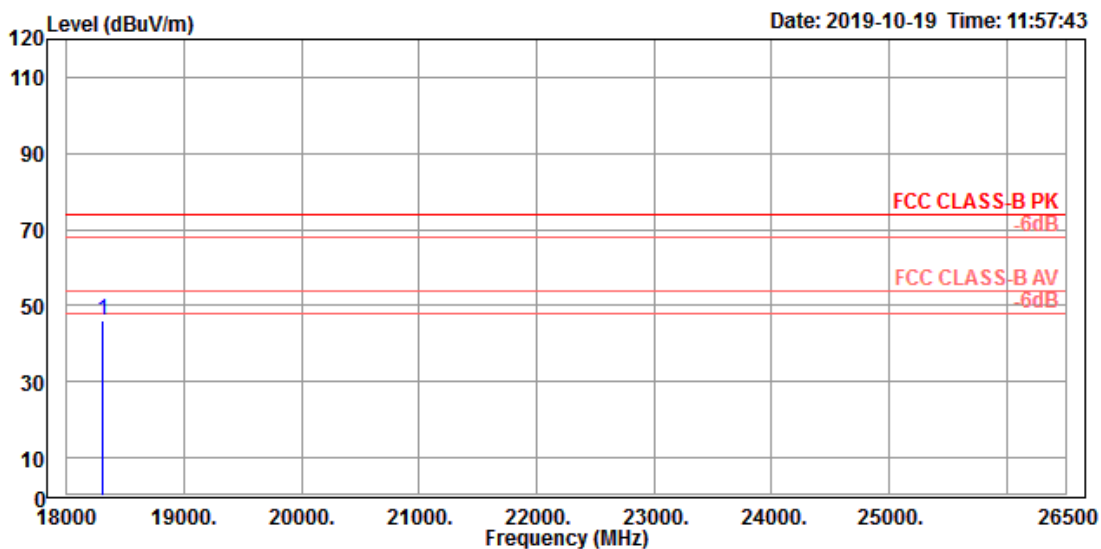
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2402
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	19110.000	40.22	4.44	44.66	74.00	-29.34	120	57	Peak



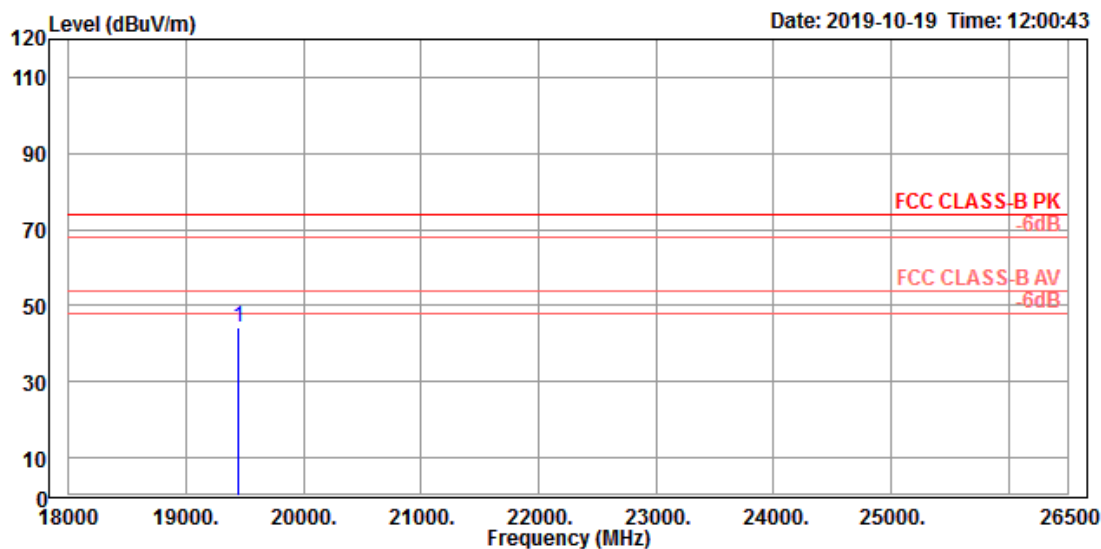
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	19448.500	40.27	4.23	44.50	74.00	-29.50	113	109	Peak



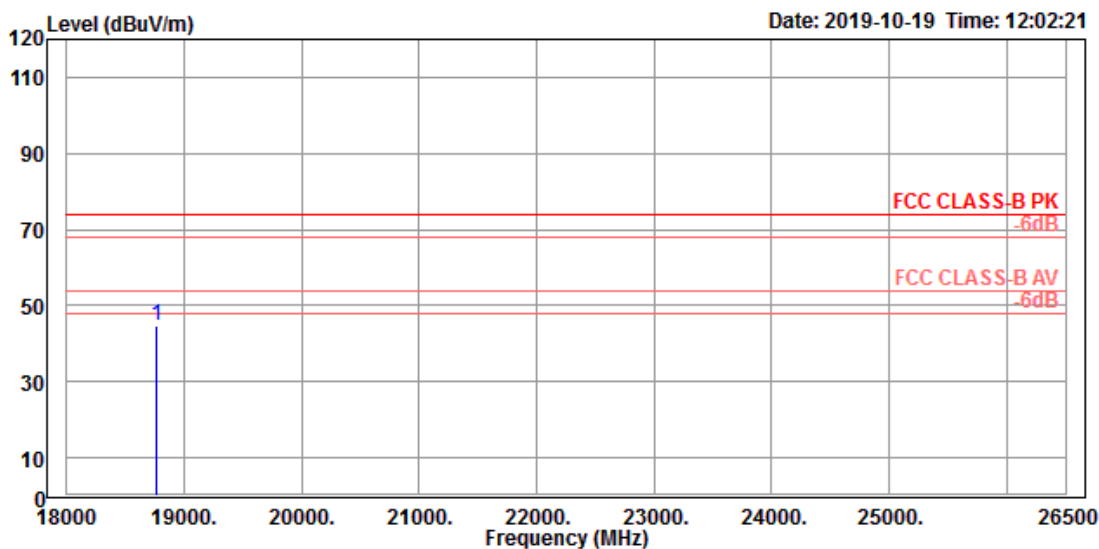
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2440
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	18309.000	40.86	5.06	45.92	74.00	-28.08	132	193	Peak



Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2480
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	19438.000	39.91	4.25	44.16	74.00	-29.84	114	138	Peak



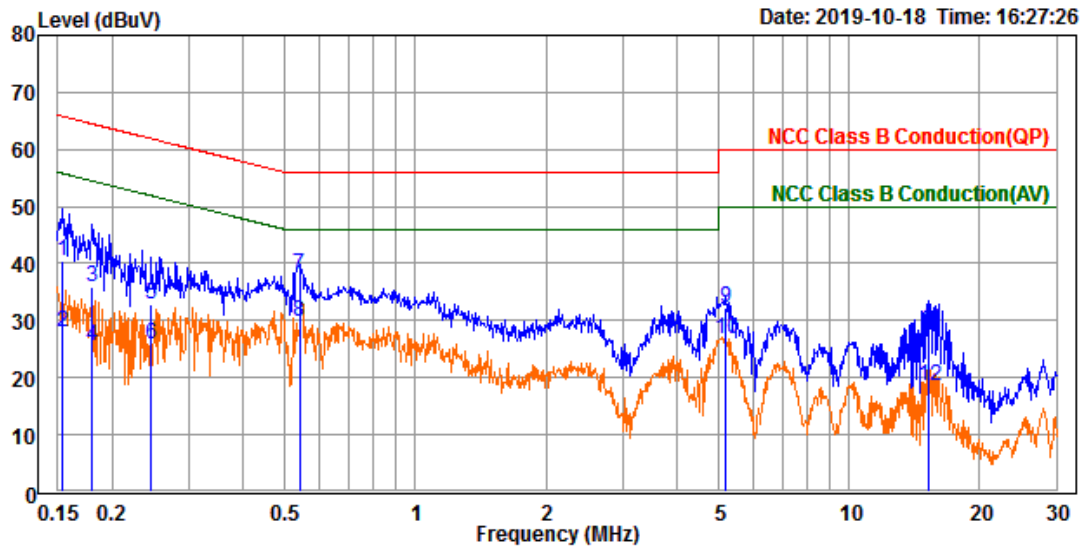
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Simon Tsai
Product : FITGRIP
Model NO : SR01
Mode : TX_2M_2480
Power setting: P_m10dBm
Test Rating : DC 5V
Tmp/Hum : 24.2°C/67%
Plane : X

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	18765.000	40.15	4.63	44.78	74.00	-29.22	119	108	Peak

Spurious Emissions, AC Mains



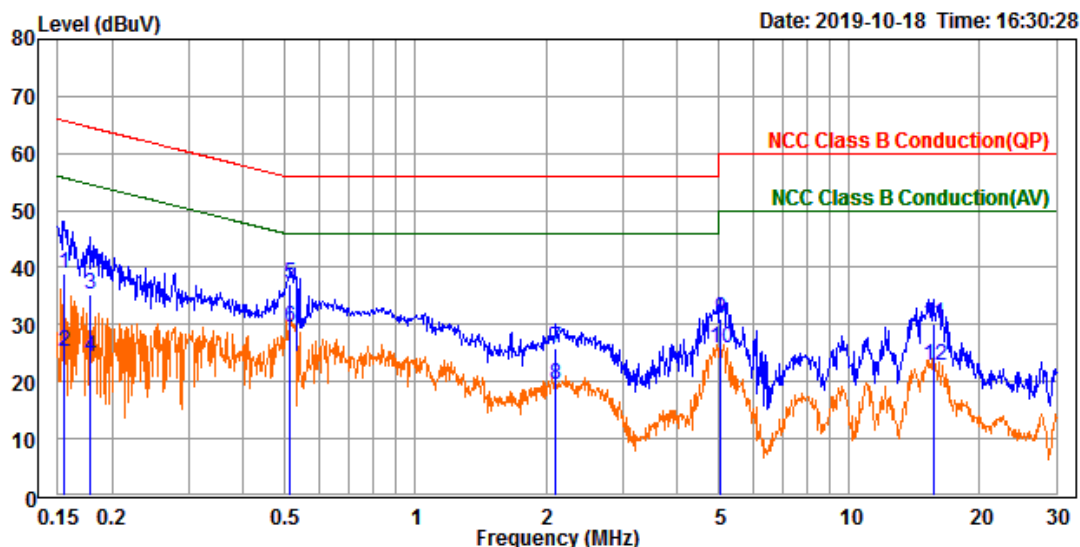
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Trace: 1

Site : Conduction room
Condition : NCC Class B Conduction(QP) neutral
Test Engineer: Simon Tsai
Applicant : SAMSUNG C&T TAIWAN CORPORATION
Product : FITGRIP
Model No. : SR01
Test Rating : 110Vac/60Hz
Tmp/Hum : 22°C/43%
Memo : 2440MHz

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.153	30.75	9.62	40.37	65.83	-25.46	QP
2	0.153	18.42	9.62	28.04	55.83	-27.79	Average
3	0.179	26.18	9.62	35.80	64.51	-28.71	QP
4	0.179	15.79	9.62	25.41	54.51	-29.10	Average
5	0.246	23.30	9.62	32.92	61.90	-28.98	QP
6	0.246	16.10	9.62	25.72	51.90	-26.18	Average
7	0.540	28.36	9.63	37.99	56.00	-18.01	QP
8	0.540	20.28	9.63	29.91	46.00	-16.09	Average
9	5.190	22.65	9.69	32.34	60.00	-27.66	QP
10	5.190	17.10	9.69	26.79	50.00	-23.21	Average
11	15.307	18.47	9.80	28.27	60.00	-31.73	QP
12	15.307	8.66	9.80	18.46	50.00	-31.54	Average



Trace: 1

Site : Conduction room

Condition : NCC Class B Conduction(QP) line1

Test Engineer: Simon Tsai

Applicant : SAMSUNG C&T TAIWAN CORPORATION

Product : FITGRIP

Model No. : SR01

Test Rating : 110Vac/60Hz

Tmp/Hum : 22°C/43%

Memo : 2440MHz

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.155	29.39	9.61	39.00	65.71	-26.71	QP
2	0.155	15.58	9.61	25.19	55.71	-30.52	Average
3	0.178	25.71	9.61	35.32	64.59	-29.27	QP
4	0.178	14.76	9.61	24.37	54.59	-30.22	Average
5	0.514	27.54	9.62	37.16	56.00	-18.84	QP
6	0.514	19.88	9.62	29.50	46.00	-16.50	Average
7	2.106	16.29	9.64	25.93	56.00	-30.07	QP
8	2.106	9.86	9.64	19.50	46.00	-26.50	Average
9	5.037	21.48	9.68	31.16	60.00	-28.84	QP
10	5.037	16.07	9.68	25.75	50.00	-24.25	Average
11	15.615	20.34	9.77	30.11	60.00	-29.89	QP
12	15.615	13.12	9.77	22.89	50.00	-27.11	Average