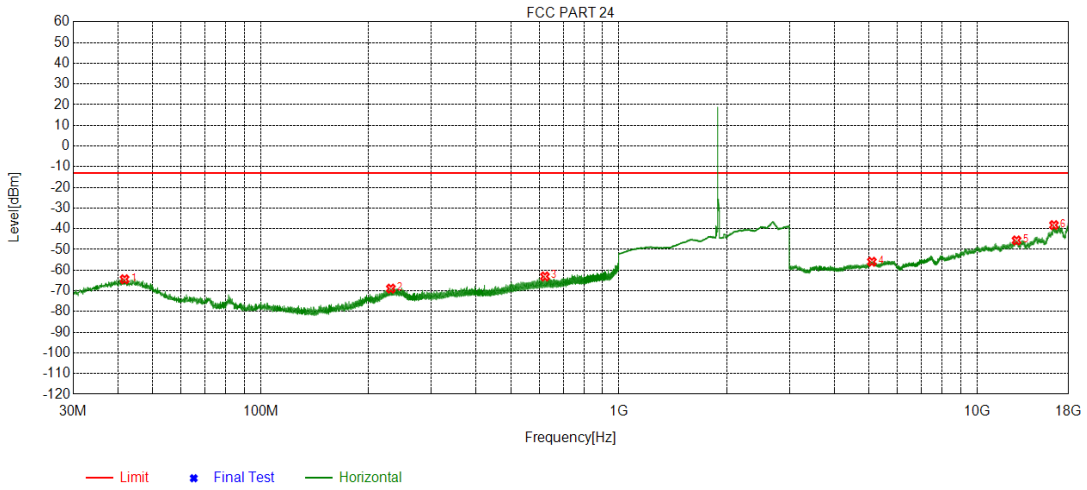
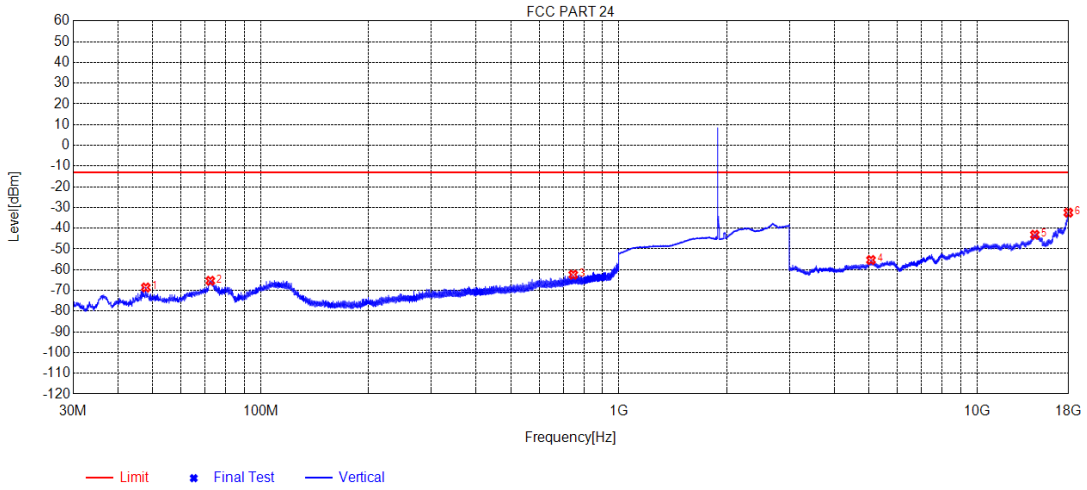
7.2.1.1.2. Test Channel = MCH

7.2.1.1.2.1. Horizontal



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.7376	-71.24	-64.39	-13.00	51.39	6.85	Horizontal
2	231.1396	-71.75	-68.92	-13.00	55.92	2.83	Horizontal
3	622.3116	-70.78	-63.04	-13.00	50.04	7.74	Horizontal
4	5089.069	-77.49	-55.93	-13.00	42.93	21.56	Horizontal
5	12896.82	-78.47	-45.63	-13.00	32.63	32.84	Horizontal
6	16399.44	-75.72	-38.21	-13.00	25.21	37.51	Horizontal

7.2.1.1.2.2. Vertical



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.8489	-66.93	-68.59	-13.00	55.59	-1.66	Vertical
2	72.4396	-66.52	-65.35	-13.00	52.35	1.17	Vertical
3	746.2838	-71.96	-62.41	-13.00	49.41	9.55	Vertical
4	5060.568	-76.45	-55.33	-13.00	42.33	21.12	Vertical
5	14502.88	-78.73	-43.13	-13.00	30.13	35.60	Vertical
6	17990.99	-76.91	-32.46	-13.00	19.46	44.45	Vertical

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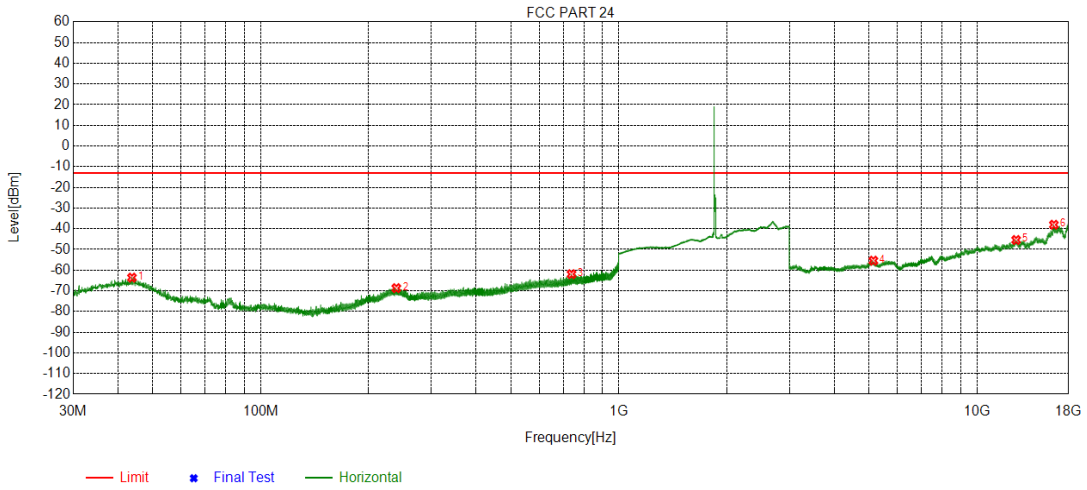
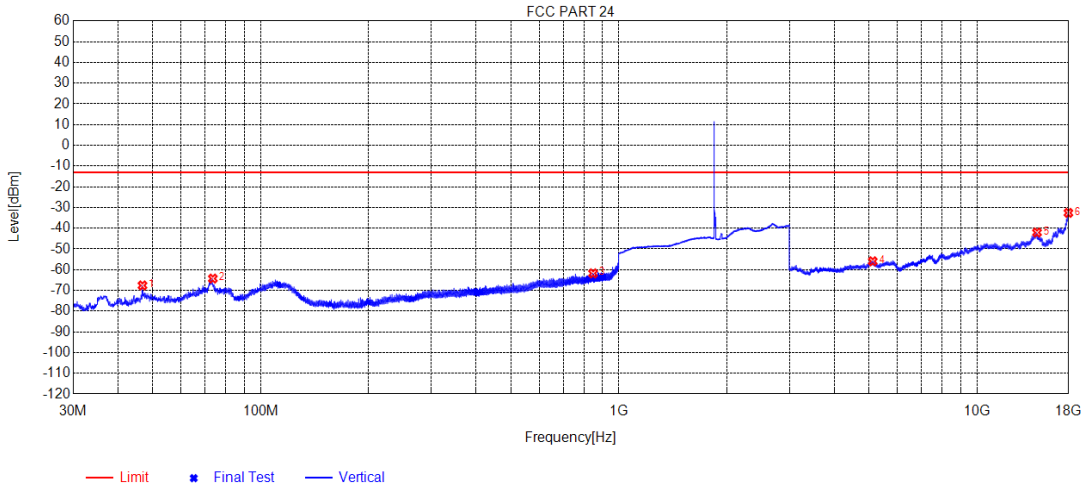
7.2.1.1.3. Test Channel = HCH

7.2.1.1.3.1. Horizontal



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.7747	-70.57	-63.61	-13.00	50.61	6.96	Horizontal
2	239.4335	-71.48	-68.69	-13.00	55.69	2.79	Horizontal
3	738.2324	-71.51	-61.94	-13.00	48.94	9.57	Horizontal
4	5138.071	-76.92	-55.42	-13.00	42.42	21.50	Horizontal
5	12859.82	-78.03	-45.41	-13.00	32.41	32.62	Horizontal
6	16393.44	-75.43	-38.04	-13.00	25.04	37.39	Horizontal

7.2.1.1.3.2. Vertical



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.8303	-65.72	-67.60	-13.00	54.60	-1.88	Vertical
2	73.6037	-65.25	-64.28	-13.00	51.28	0.97	Vertical
3	847.8964	-72.49	-61.77	-13.00	48.77	10.72	Vertical
4	5117.570	-77.15	-55.94	-13.00	42.94	21.21	Vertical
5	14709.39	-77.95	-42.07	-13.00	29.07	35.88	Vertical
6	17998.50	-77.20	-32.58	-13.00	19.58	44.62	Vertical

Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.

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8.Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	4.19	0.002253	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	4.21	0.002263	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	4.45	0.002392	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-4.19	-0.002229	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-4.61	-0.002452	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-4.39	-0.002335	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-4.66	-0.002453	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-5.24	-0.002758	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-4.08	-0.002147	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VL	NT	3.71	0.001995	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VN	NT	4.63	0.002489	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VH	NT	3.35	0.001801	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VL	NT	-3.78	-0.002011	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VN	NT	-4.42	-0.002351	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VH	NT	-5.04	-0.002681	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VL	NT	-4.58	-0.002411	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VN	NT	-4.15	-0.002184	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VH	NT	-5.31	-0.002795	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	3.93	0.002113	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	4.55	0.002446	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	4.21	0.002263	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-4.02	-0.002138	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-3.92	-0.002085	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-3.75	-0.001995	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-4.84	-0.002547	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-3.71	-0.001953	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-4.72	-0.002484	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature

BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	3.13	0.001683	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	3.98	0.002140	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	3.83	0.002059	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	4.18	0.002247	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	4.15	0.002231	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	4.51	0.002425	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	4.58	0.002462	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	3.81	0.002048	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-1.00	-0.000532	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.00	-0.000532	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-5.62	-0.002989	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-4.13	-0.002197	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-4.68	-0.002489	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-4.88	-0.002596	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-4.22	-0.002245	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-3.23	-0.001718	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-4.51	-0.002374	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-5.41	-0.002847	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-4.09	-0.002153	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-4.35	-0.002289	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-4.29	-0.002258	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-4.13	-0.002174	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-4.43	-0.002332	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-5.61	-0.002953	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-30	5.87	0.003156	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-20	5.08	0.002731	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	0	3.82	0.002054	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	10	4.03	0.002167	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	20	4.72	0.002538	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	30	3.86	0.002075	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	40	4.15	0.002231	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	50	4.62	0.002484	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-30	-4.56	-0.002426	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-20	-5.04	-0.002681	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	0	-5.12	-0.002723	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	10	-4.89	-0.002601	±2.5	PASS

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Band2	20MHz	64QAM	18900	100RB#0	NV	20	-5.25	-0.002793	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	30	-5.69	-0.003027	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	40	-9.13	-0.004856	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	50	-4.35	-0.002314	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-30	-4.73	-0.002489	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-20	-5.19	-0.002732	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	0	-4.95	-0.002605	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	10	-4.35	-0.002289	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	20	-4.59	-0.002416	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	30	-4.62	-0.002432	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	40	-4.21	-0.002216	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	50	-5.35	-0.002816	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	3.82	0.002054	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	4.22	0.002269	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	1.70	0.000914	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	1.80	0.000968	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	1.20	0.000645	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	1.90	0.001022	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	-3.55	-0.001888	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	-3.79	-0.002016	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	-4.41	-0.002346	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-3.83	-0.002037	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-3.85	-0.002048	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	-4.31	-0.002293	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-3.99	-0.002122	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-4.36	-0.002319	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-4.75	-0.002500	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-4.45	-0.002342	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-3.89	-0.002047	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-5.01	-0.002637	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-4.18	-0.002200	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-5.81	-0.003058	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-4.29	-0.002258	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-4.43	-0.002332	±2.5	PASS

The End

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