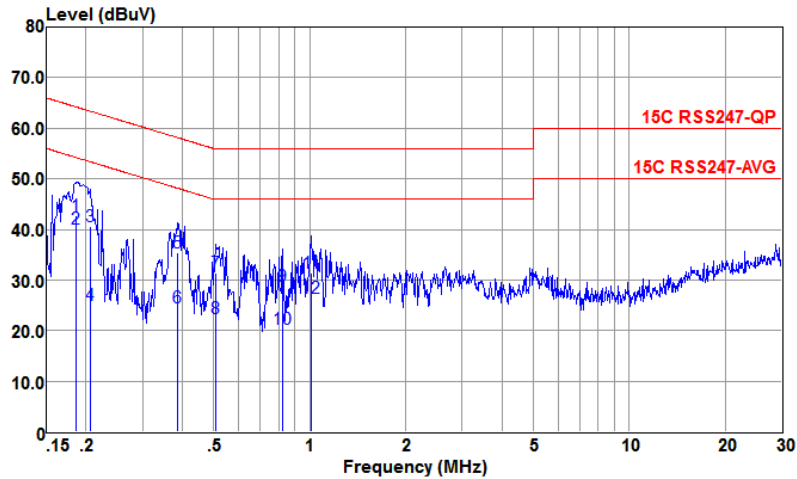




Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

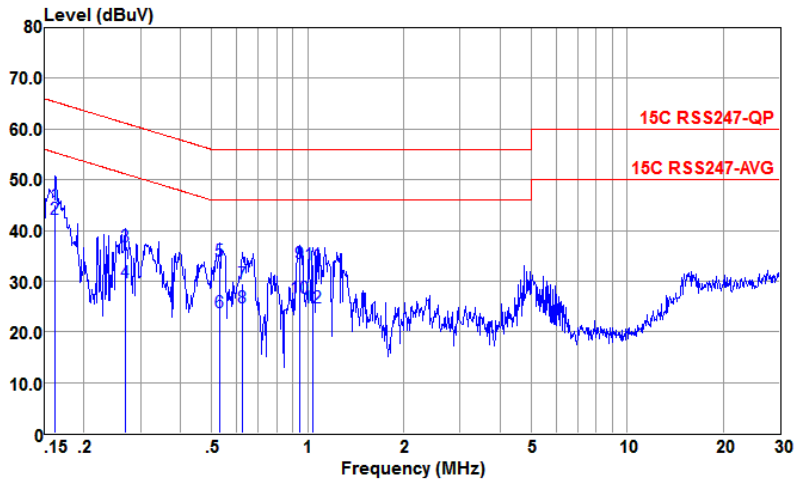


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.186	42.65	-21.55	64.20	32.21	0.03	10.41	QP
2 *	0.186	40.05	-14.15	54.20	29.61	0.03	10.41	Average
3	0.206	40.63	-22.73	63.36	30.20	0.03	10.40	QP
4	0.206	24.93	-28.43	53.36	14.50	0.03	10.40	Average
5	0.385	35.49	-22.68	58.17	25.19	0.01	10.29	QP
6	0.385	24.59	-23.58	48.17	14.29	0.01	10.29	Average
7	0.510	31.38	-24.62	56.00	21.19	-0.03	10.22	QP
8	0.510	22.38	-23.62	46.00	12.19	-0.03	10.22	Average
9	0.822	28.82	-27.18	56.00	18.79	-0.08	10.11	QP
10	0.822	20.22	-25.78	46.00	10.19	-0.08	10.11	Average
11	1.016	31.49	-24.51	56.00	21.50	-0.10	10.09	QP
12	1.016	26.49	-19.51	46.00	16.50	-0.10	10.09	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.162	45.06	-20.28	65.34	34.60	0.04	10.42	QP
2 *	0.162	42.26	-13.08	55.34	31.80	0.04	10.42	Average
3	0.269	36.94	-24.22	61.16	26.61	-0.02	10.35	QP
4	0.269	29.64	-21.52	51.16	19.31	-0.02	10.35	Average
5	0.532	34.04	-21.96	56.00	23.90	-0.07	10.21	QP
6	0.532	23.94	-22.06	46.00	13.80	-0.07	10.21	Average
7	0.624	29.60	-26.40	56.00	19.50	-0.07	10.17	QP
8	0.624	24.70	-21.30	46.00	14.60	-0.07	10.17	Average
9	0.943	33.50	-22.50	56.00	23.49	-0.09	10.10	QP
10	0.943	26.60	-19.40	46.00	16.59	-0.09	10.10	Average
11	1.043	33.19	-22.81	56.00	23.20	-0.10	10.09	QP
12	1.043	24.89	-21.11	46.00	14.90	-0.10	10.09	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Ryan Xu	Relative Humidity :	41 ~ 42%
		Temperature :	22 ~ 23°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	6	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	6	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	6	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	6	Bluetooth BR_GFSK	78	2480	1Mbps	-	LF
Mode 5	2400-2483.5	3	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 6	2400-2483.5	3	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 7	2400-2483.5	3	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 8	2400-2483.5	3	Bluetooth BR_GFSK	78	2480	1Mbps	-	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2375.00	55.14	74.00	-18.86	H	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	51.17	74.00	-22.83	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	4882.00	47.97	74.00	-26.03	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2498.41	55.99	74.00	-18.01	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	45.69	74.00	-28.31	H	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	78	553.80	39.08	46.00	-6.92	V	PEAK	Pass	LF
5	Bluetooth BR_GFSK	00	2386.31	55.39	74.00	-18.61	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	51.10	74.00	-22.90	V	PEAK	Pass	Harmonic
6	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	4882.00	48.11	74.00	-25.89	V	PEAK	Pass	Harmonic
7	Bluetooth BR_GFSK	78	2494.69	55.91	74.00	-18.09	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	45.79	74.00	-28.21	V	PEAK	Pass	Harmonic
8	Bluetooth BR_GFSK	78	564.47	39.85	46.00	-6.15	V	PEAK	Pass	LF



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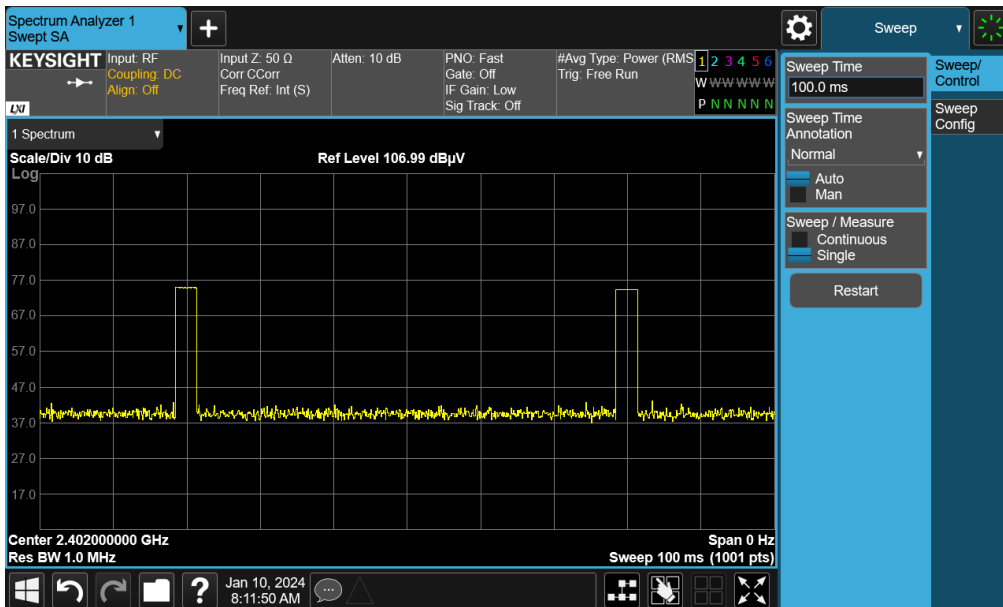
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.