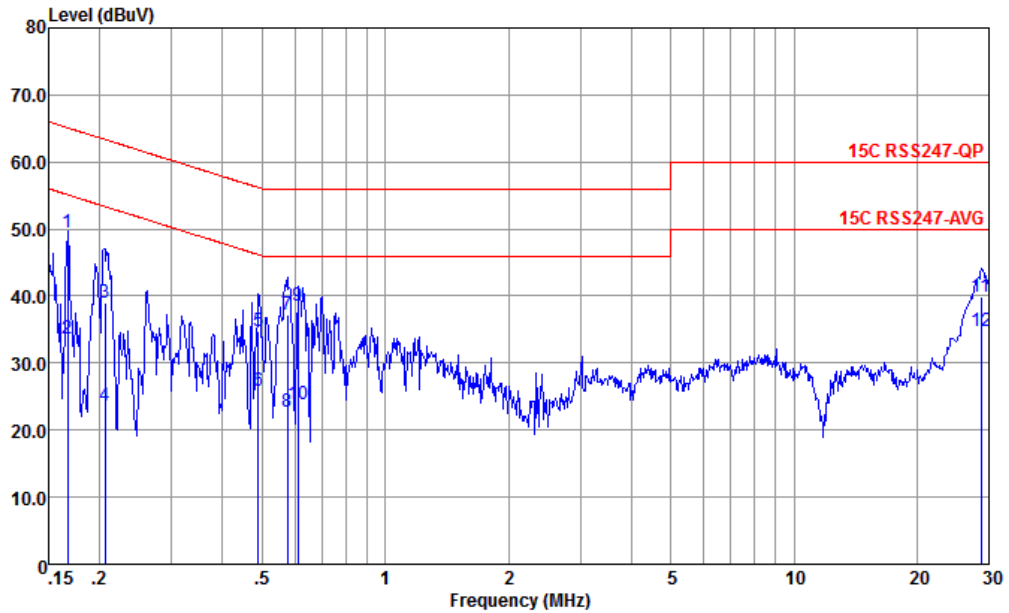






## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos	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.		

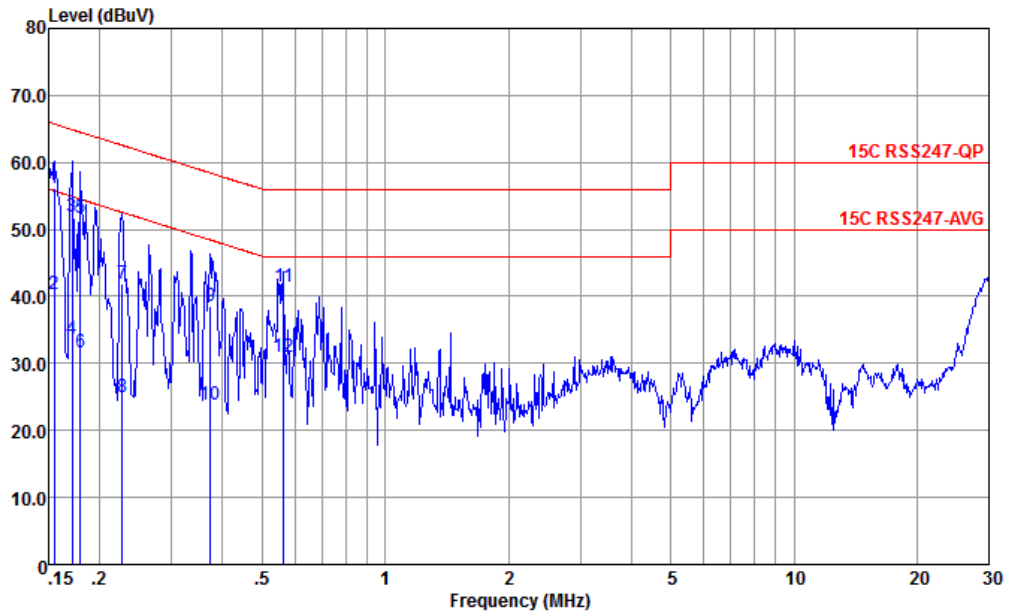


Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.167	49.56	-15.56	65.12	39.09	0.03	10.44	QP
2	0.167	33.66	-21.46	55.12	23.19	0.03	10.44	Average
3	0.206	39.00	-24.36	63.36	28.60	0.04	10.36	QP
4	0.206	23.70	-29.66	53.36	13.30	0.04	10.36	Average
5	0.489	34.84	-21.35	56.19	24.50	0.10	10.24	QP
6	0.489	25.94	-20.25	46.19	15.60	0.10	10.24	Average
7	0.576	37.14	-18.86	56.00	26.80	0.10	10.24	QP
8	0.576	22.84	-23.16	46.00	12.50	0.10	10.24	Average
9	0.611	38.54	-17.46	56.00	28.19	0.11	10.24	QP
10	0.611	23.84	-22.16	46.00	13.49	0.11	10.24	Average
11	28.755	39.98	-20.02	60.00	28.60	0.77	10.61	QP
12 *	28.755	34.68	-15.32	50.00	23.30	0.77	10.61	Average



Test Engineer :	Amos	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 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.155	56.07	-9.67	65.74	45.49	0.11	10.47	QP
2	0.155	40.37	-15.37	55.74	29.79	0.11	10.47	Average
3	0.171	52.03	-12.87	64.90	41.49	0.11	10.43	QP
4	0.171	33.73	-21.17	54.90	23.19	0.11	10.43	Average
5	0.180	51.71	-12.79	64.50	41.20	0.10	10.41	QP
6	0.180	31.71	-22.79	54.50	21.20	0.10	10.41	Average
7	0.227	41.95	-20.62	62.57	31.50	0.10	10.35	QP
8	0.227	24.95	-27.62	52.57	14.50	0.10	10.35	Average
9	0.373	38.58	-19.85	58.43	28.20	0.10	10.28	QP
10	0.373	23.88	-24.55	48.43	13.50	0.10	10.28	Average
11	0.564	41.55	-14.45	56.00	31.20	0.11	10.24	QP
12	0.564	30.95	-15.05	46.00	20.60	0.11	10.24	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 Engineer :	Carry 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	7	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	7	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	7	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 27	2400-2483.5	7	Bluetooth LF	78	2480	1Mbps	-	-



### 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	2372.01	55.72	74.00	-18.28	V	PEAK	Pass	Band Edge
2	Bluetooth BR_GFSK	39	4882.00	48.41	74.00	-25.59	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2491.50	56.59	74.00	-17.41	V	PEAK	Pass	Band Edge
27	Bluetooth LF	-	-	-	-	-	-	-	Pass	-



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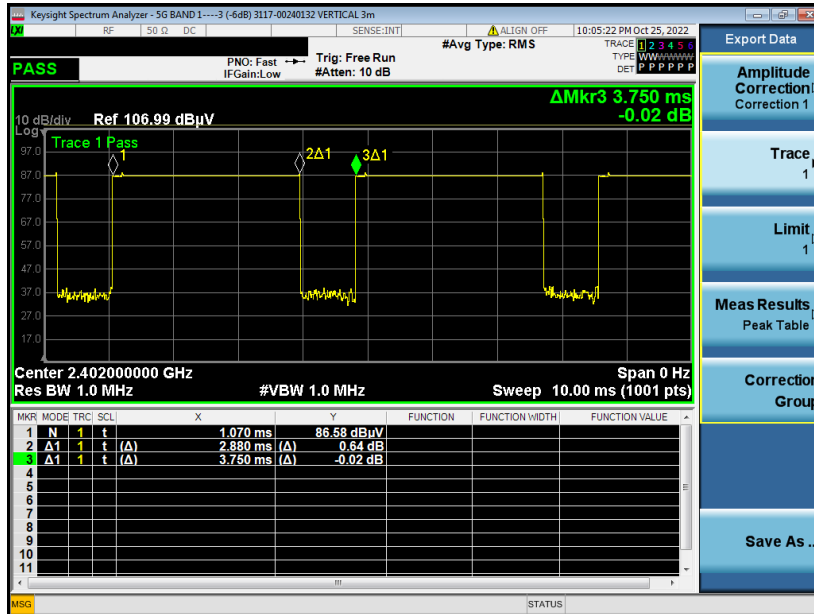


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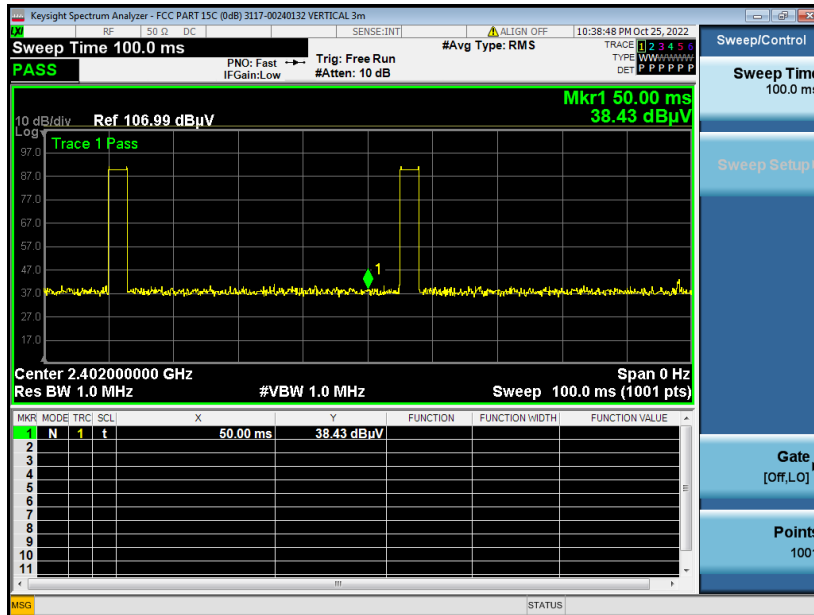


# Appendix D. Duty Cycle Plots

## 3DH5 on time (One Pulse) Plot on Channel 39



## 3DH5 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(Duty cycle) = -24.79 dB
3. 3DH5 has the highest duty cycle worst case and is reported.