

FSK-FHSS-150Kbps

Test Engineer:	Smile Wang	Temperature:	20~26	°C
Test Date:	2024/3/21~2024/5/30	Relative Humidity:	40~51	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	150Kbps	1	902.4	0.127	0.151	0.399	0.127	Pass
FSK	150Kbps	1	915.2	0.127	0.152	0.399	0.127	Pass
FSK	150Kbps	1	927.6	0.142	0.161	0.368	0.142	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	CH.	DT On-time per hop (ms)	Total hops over 20sec	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK 150K	hopping	2	16.00	0.03	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	Power Setting
FSK 150K	902.4	1	20.63	30.00	Pass	20
	915.2	1	20.56	30.00	Pass	20
	927.6	1	20.50	30.00	Pass	20

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
64	> 50	Pass

FSK-FHSS-250Kbps

Test Engineer:	Smile Wang	Temperature:	20~26	°C
Test Date:	2024/3/21~2024/5/30	Relative Humidity:	40~51	%

TEST RESULTS DATA

20dB and 99% Occupied Bandwidth and Hopping Channel Separation

Mod.	Data Rate	NTX	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	250Kbps	1	902.5	0.132	0.185	0.500	0.132	Pass
FSK	250Kbps	1	915	0.132	0.186	0.500	0.132	Pass
FSK	250Kbps	1	927.5	0.132	0.188	0.500	0.132	Pass

TEST RESULTS DATA

Dwell Time

Mod.	CH.	DT On-time per hop (ms)	Total hops over 20sec	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK250	hopping	2	20.00	0.04	0.4	Pass

TEST RESULTS DATA

Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result	Power Setting
FSK250	902.5	1	20.61	30.00	Pass	20
	915	1	20.59	30.00	Pass	20
	927.5	1	20.59	30.00	Pass	20

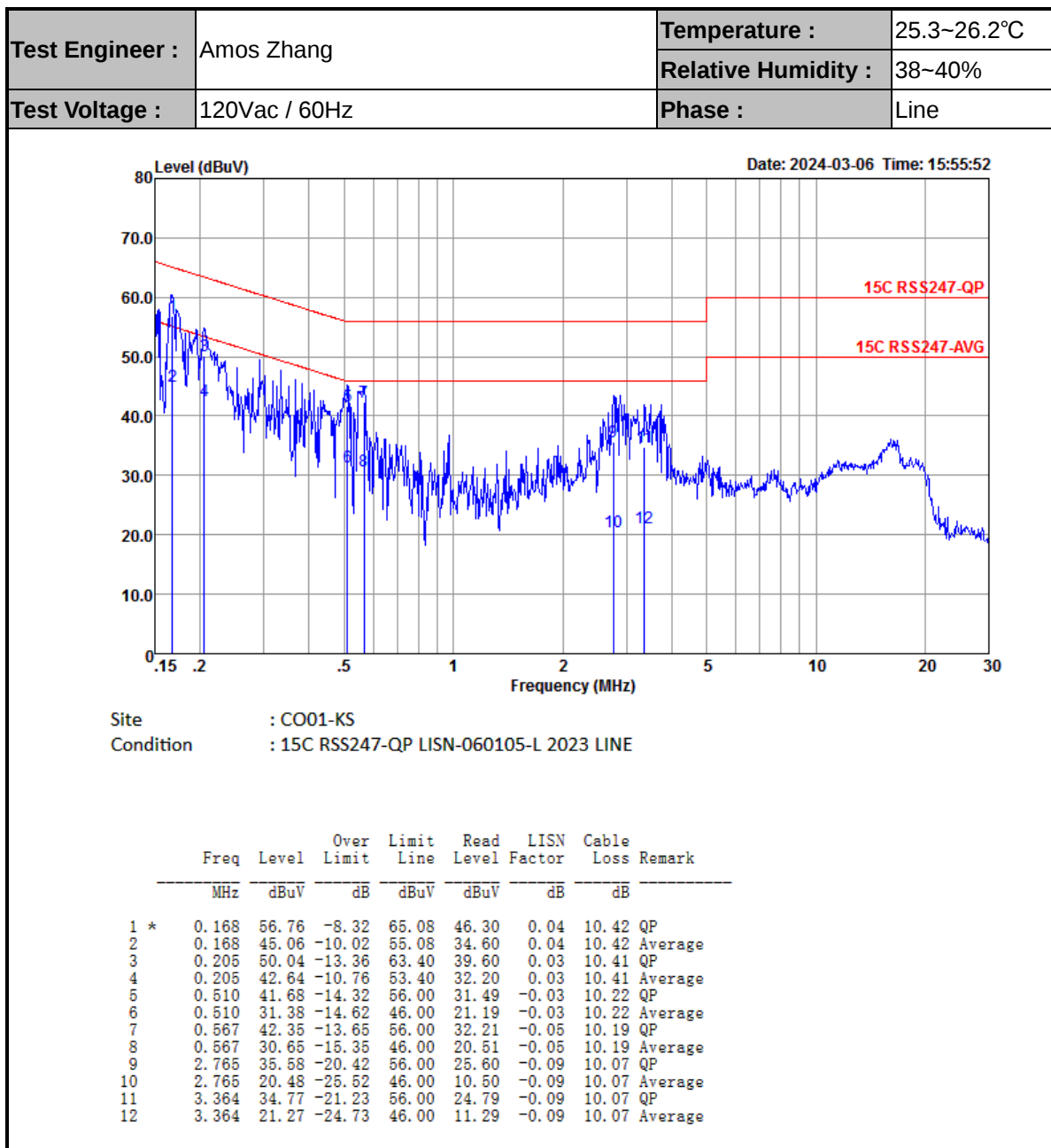
TEST RESULTS DATA

Number of Hopping Frequency

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
51	>50	Pass

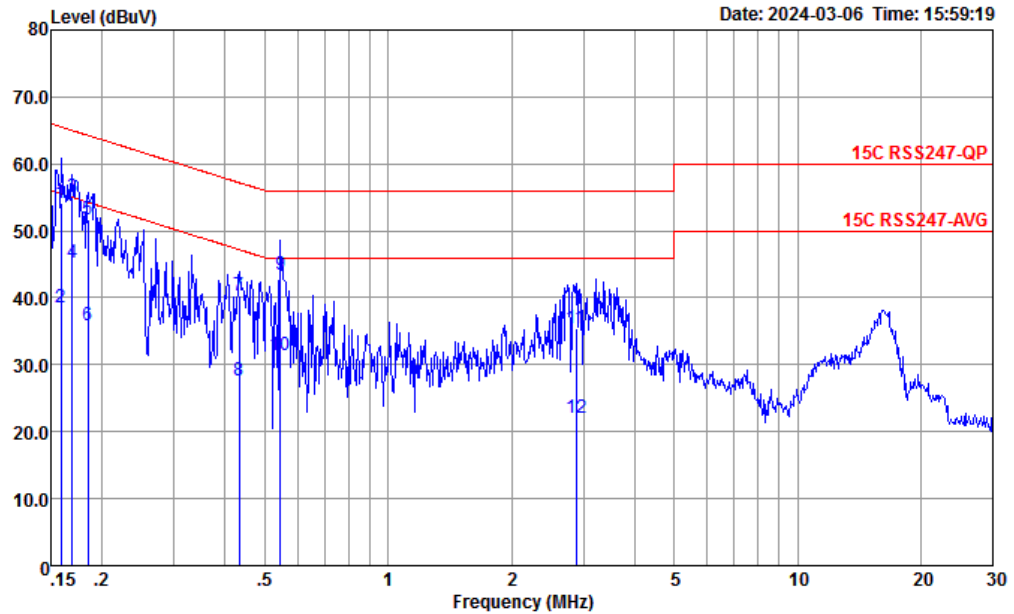


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



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	0.159	54.06	-11.46	65.52	43.60	0.04	10.42	QP
2	0.159	38.66	-16.86	55.52	28.20	0.04	10.42	Average
3	0.169	55.06	-9.93	64.99	44.60	0.04	10.42	QP
4 *	0.169	45.16	-9.83	54.99	34.70	0.04	10.42	Average
5	0.184	51.66	-12.62	64.28	41.20	0.05	10.41	QP
6	0.184	35.96	-18.32	54.28	25.50	0.05	10.41	Average
7	0.433	40.40	-16.80	57.20	30.20	-0.06	10.26	QP
8	0.433	27.70	-19.50	47.20	17.50	-0.06	10.26	Average
9	0.546	43.43	-12.57	56.00	33.30	-0.07	10.20	QP
10	0.546	31.33	-14.67	46.00	21.20	-0.07	10.20	Average
11	2.884	35.44	-20.56	56.00	25.50	-0.13	10.07	QP
12	2.884	22.14	-23.86	46.00	12.20	-0.13	10.07	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

FSK 50Kbps (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.2MHz		382.11	34.24	-11.76	46	42.44	21.05	2.85	32.1	-	-	P	H
		902.03	103	-	-	100.73	29.18	4.37	31.28	-	-	P	H
		407.33	33.2	-12.8	46	40.04	22.32	2.95	32.11	-	-	P	V
		902.03	112.99	-	-	110.72	29.18	4.37	31.28	-	-	P	V
915MHz		402.48	38.8	-7.2	46	46.02	21.96	2.93	32.11	-	-	P	H
		914.64	108.36	-	-	105.6	29.55	4.4	31.19	-	-	P	H
		400.54	35.74	-10.26	46	43.12	21.81	2.92	32.11	-	-	P	V
		914.64	115.78	-	-	113.02	29.55	4.4	31.19	-	-	P	V
927.6MHz		353.01	32.64	-13.36	46	42.20	20.50	2.86	32.92	-	-	P	H
		927.60	108.15	-	-	108.06	27.16	4.66	31.73	-	-	P	H
		401.51	32.10	-13.90	46	40.18	21.70	3.06	32.84	-	-	P	V
		927.60	117.41	-	-	117.32	27.16	4.66	31.73	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 50Kbps (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.2MHz		1049.20	43.96	-30.04	74	75.86	28.56	4.69	65.15	-	-	P	H
		2706.40	53.20	-20.80	74	78.11	33.06	7.58	65.55	331	262	P	H
		2706.40	37.06	-16.94	54	61.97	33.06	7.58	65.55	331	262	A	H
		5413.60	51.59	-22.41	74	71.00	35.25	10.79	65.45	100	287	P	H
		5413.60	35.45	-18.55	54	54.86	35.25	10.79	65.45	100	287	A	H
		1041.40	48.52	-25.48	74	80.29	28.70	4.68	65.15	-	-	P	V
		2706.40	50.16	-23.84	74	75.07	33.06	7.58	65.55	100	293	P	V
		2706.40	34.02	-19.98	54	58.93	33.06	7.58	65.55	100	293	A	V
		5413.60	52.87	-21.13	74	72.28	35.25	10.79	65.45	100	43	P	V
		5413.60	36.73	-17.27	54	56.14	35.25	10.79	65.45	100	43	A	V
915MHz		1058.20	44.53	-29.47	74	76.57	28.41	4.71	65.16	-	-	P	H
		2744.80	51.46	-22.54	74	76.50	32.83	7.63	65.50	362	248	P	H
		2744.80	35.32	-18.68	54	60.36	32.83	7.63	65.50	362	248	A	H
		5489.80	52.15	-36.21	88.36	71.76	34.94	10.87	65.42	-	-	P	H
		1056.40	47.12	-26.88	74	79.13	28.44	4.71	65.16	-	-	P	V
		2744.80	47.98	-26.02	74	73.02	32.83	7.63	65.50	-	-	P	V
		2744.80	54.31	-41.47	95.78	73.92	34.94	10.87	65.42	-	-	P	V
927.6MHz		1064.80	44.94	-29.06	74	78.21	27.17	4.73	65.17	-	-	P	H
		2782.60	51.52	-22.48	74	77.20	32.10	7.68	65.46	100	330	P	H
		2782.60	35.38	-18.62	54	61.06	32.10	7.68	65.46	100	330	A	H
		5565.40	53.20	-34.95	88.15	72.82	34.80	10.96	65.38	-	-	P	H
		1072.60	48.25	-25.75	74	81.68	27.00	4.74	65.17	-	-	P	V
		2782.60	52.95	-21.05	74	78.63	32.10	7.68	65.46	300	326	P	V
		2782.60	36.81	-17.19	54	62.49	32.10	7.68	65.46	300	326	A	V
		5565.40	56.32	-41.09	97.41	75.94	34.80	10.96	65.38	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 150Kbps (Band Edge @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.4MHz		450.98	36.33	-9.67	46	42.49	22.88	3.09	32.13	-	-	P	H
		902.03	106.91	-	-	104.64	29.18	4.37	31.28	-	-	P	H
		84.32	34.39	-5.61	40	51.33	13.88	1.24	32.06	-	-	P	V
		902.03	114.69	-	-	112.42	29.18	4.37	31.28	-	-	P	V
914.8MHz		389.87	36.42	-9.58	46	44.29	21.35	2.88	32.1	-	-	P	H
		914.64	108.85	-	-	106.09	29.55	4.4	31.19	-	-	P	H
		32.91	35.52	-4.48	40	43.68	23.49	0.54	32.19	-	-	P	V
		914.64	115.54	-	-	112.78	29.55	4.4	31.19	-	-	P	V
927.6MHz		394.72	37.25	-8.75	46	45.51	21.55	3.03	32.84	-	-	P	H
		928.22	107.25	-	-	107.13	27.18	4.66	31.72	-	-	P	H
		401.51	34.1	-11.9	46	42.18	21.7	3.06	32.84	-	-	P	V
		927.25	114.86	-	-	114.77	27.16	4.66	31.73	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 150Kbps (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.4MHz		1048.60	40.84	-33.16	74	72.73	28.57	4.69	65.15	-	-	P	H
		2706.40	51.26	-22.74	74	76.17	33.06	7.58	65.55	110	248	P	H
		2706.40	28.16	-25.84	54	53.07	33.06	7.58	65.55	110	248	A	H
		5413.60	51.51	-22.49	74	70.92	35.25	10.79	65.45	100	291	P	H
		5413.60	28.41	-45.59	54	47.82	35.25	10.79	65.45	100	291	A	H
		1042.00	46.03	-27.97	74	77.81	28.69	4.68	65.15	-	-	P	V
		2706.40	49.14	-24.86	74	74.05	33.06	7.58	65.55	100	296	P	V
		2706.40	26.04	-27.96	54	50.95	33.06	7.58	65.55	100	296	A	V
		5413.60	51.93	-22.07	74	71.34	35.25	10.79	65.45	295	324	P	V
		5413.60	28.83	-25.17	54	48.24	35.25	10.79	65.45	295	324	A	V
914.8MHz		1057.60	44.82	-29.18	74	76.85	28.42	4.71	65.16	-	-	P	H
		2744.20	51.83	-22.17	74	76.87	32.83	7.63	65.50	113	263	P	H
		2744.20	28.73	-25.27	54	53.77	32.83	7.63	65.50	113	263	A	H
		5489.20	52.40	-36.45	88.85	72.01	34.94	10.87	65.42	-	-	P	H
		1061.20	49.85	-24.15	74	81.93	28.36	4.72	65.16	-	-	P	V
		2744.20	50.84	-23.16	74	75.88	32.83	7.63	65.50	300	296	P	V
		5489.20	54.17	-41.37	95.54	73.78	34.94	10.87	65.42	-	-	P	V
927.6MHz		1073.80	45.95	-28.05	74	78.22	28.15	4.75	65.17	100	342	P	H
		2782.60	50.73	-23.27	74	75.91	32.60	7.68	65.46	100	253	P	H
		2782.60	27.63	-26.37	54	52.81	32.60	7.68	65.46	100	253	A	H
		5565.40	52.56	-34.69	87.25	72.08	34.90	10.96	65.38	-	-	P	H
		1072.60	51.59	-22.41	74	83.85	28.17	4.74	65.17	100	194	P	V
		1072.60	28.49	-25.51	54	60.75	28.17	4.74	65.17	100	194	A	V
		2782.60	49.93	-24.07	74	75.11	32.60	7.68	65.46	300	342	P	V
		2782.60	26.83	-27.17	54	52.01	32.60	7.68	65.46	300	342	A	V
		5565.40	53.62	-41.24	94.86	73.14	34.90	10.96	65.38	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 250Kbps (Band Edge @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		397.63	35.98	-10.02	46	43.52	21.66	2.91	32.11	-	-	P	H
		902.03	107.07	-	-	104.8	29.18	4.37	31.28	-	-	P	H
		32.91	35.24	-4.76	40	43.4	23.49	0.54	32.19	-	-	P	V
		902.03	114.44	-	-	112.17	29.18	4.37	31.28	-	-	P	V
915MHz		394.72	37.5	-8.5	46	45.16	21.55	2.9	32.11	-	-	P	H
		914.64	108.64	-	-	105.88	29.55	4.4	31.19	-	-	P	H
		32.91	33.91	-6.09	40	42.07	23.49	0.54	32.19	-	-	P	V
		914.64	115.32	-	-	112.56	29.55	4.4	31.19	-	-	P	V
927.5MHz		399.57	36.92	-9.08	46	44.37	21.74	2.92	32.11	-	-	P	H
		927.25	109.81	-	-	106.49	30	4.43	31.11	-	-	P	H
		404.42	34.87	-11.13	46	41.94	22.1	2.94	32.11	-	-	P	V
		927.25	116.48	-	-	113.16	30	4.43	31.11	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 250Kbps (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1058.20	41.01	-32.99	74	73.05	28.41	4.71	65.16	-	-	P	H
		2707.00	49.43	-24.57	74	74.34	33.06	7.58	65.55	100	350	P	H
		2707.00	22.49	-31.51	54	47.40	33.06	7.58	65.55	100	350	A	H
		5414.20	49.24	-24.76	74	68.66	35.24	10.79	65.45	100	210	P	H
		5414.20	22.30	-31.70	54	41.72	35.24	10.79	65.45	100	210	A	H
		1050.40	44.12	-29.88	74	76.04	28.54	4.70	65.16	-	-	P	V
		2707.00	51.48	-22.52	74	76.39	33.06	7.58	65.55	300	16	P	V
		2707.00	23.10	-30.90	54	48.01	33.06	7.58	65.55	300	16	A	V
		5415.40	52.79	-21.21	74	72.21	35.24	10.79	65.45	300	321	P	V
		5415.40	25.85	-28.15	54	45.27	35.24	10.79	65.45	300	321	A	V
915MHz		1054.60	44.71	-29.29	74	76.70	28.47	4.70	65.16	-	-	P	H
		2744.80	52.09	-21.91	74	77.13	32.83	7.63	65.50	111	352	P	H
		2744.80	25.15	-28.85	54	50.19	32.83	7.63	65.50	111	352	A	H
		5489.80	54.73	-33.91	88.64	74.34	34.94	10.87	65.42	-	-	P	H
		1060.00	49.71	-24.29	74	81.77	28.38	4.72	65.16	-	-	P	V
		2744.80	51.86	-22.32	74	76.72	32.83	7.63	65.50	375	274	P	V
		2744.80	24.74	-29.26	54	49.78	32.83	7.63	65.50	375	274	A	V
		5489.80	55.41	-39.31	95.32	75.02	34.94	10.87	65.42	-	-	P	V
927.5MHz		1057.60	45.79	-28.21	74	77.82	28.42	4.71	65.16	-	-	P	H
		2782.60	50.72	-23.28	74	75.90	32.60	7.68	65.46	100	268	P	H
		2782.60	23.78	-30.22	54	48.96	32.60	7.68	65.46	100	268	A	H
		5565.40	51.96	-37.85	89.81	71.48	34.90	10.96	65.38	-	-	P	H
		1073.80	51.34	-22.66	74	83.61	28.15	4.75	65.17	-	-	P	V
		2782.60	51.20	-22.80	74	76.38	32.60	7.68	65.46	100	288	P	V
		2782.60	24.26	-29.74	54	49.44	32.60	7.68	65.46	100	288	A	V
		5565.40	53.64	-42.84	96.48	73.16	34.90	10.96	65.38	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.2MHz		2706.40	53.20	-20.80	74	78.11	33.06	7.58	65.55	331	262	P	H
		2706.40	37.06	-16.94	54	61.97	33.06	7.58	65.55	331	262	A	H

$$1. \text{ Level(dB}\mu\text{V/m)} = \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$2. \text{ Over Limit(dB)} = \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2707MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 33.06(\text{dB/m}) + 7.58(\text{dB}) + 78.11(\text{dB}\mu\text{V}) - 65.55(\text{dB})$$

$$= 53.20(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 53.20(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -20.80(\text{dB})$$

For Average Limit @ 2707MHz:

$$1. \text{ AV Level(dB}\mu\text{V/m)}$$

$$= \text{Peak Level(dB}\mu\text{V/m)} + \text{Duty cycle correction factor (dB)}$$

$$= 53.20(\text{dB}\mu\text{V/m}) + (-16.14)(\text{dB})$$

$$= 37.06(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 37.06(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -16.94(\text{dB})$$

Both peak and average measured complies with the limit line, so test result is "PASS".



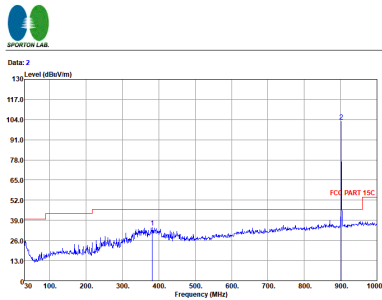
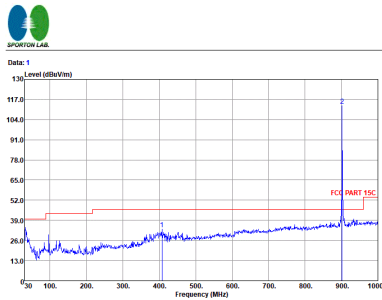
Appendix D. Radiated Spurious Emission Plots

Note symbol

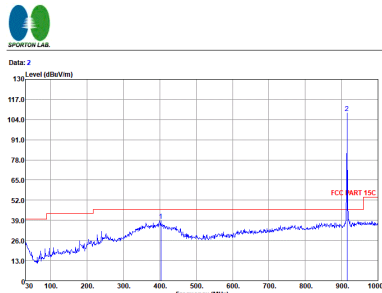
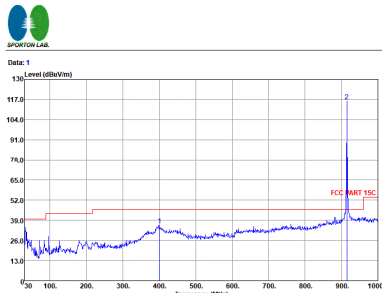
-L	Low channel location
-R	High channel location



FSK 50Kbps FHSS
(Band Edge @ 3m)

LoRa	902.2~927.6 Band Edge @ 3m																																																																																																					
ANT	FSK 50Kbps FHSS CH01 902.2																																																																																																					
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LoRa	902.2~927.6 Band Edge @ 3m																																																																																																																									
ANT	FSK 50Kbps FHSS CH65 915																																																																																																																									
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Peak	<table><tr><th colspan="12">Data: 2</th></tr><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>Cable/Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr><tr><td>1</td><td>482.48</td><td>38.00</td><td>-7.28</td><td>46.00</td><td>46.82</td><td>2.93</td><td>21.96</td><td>32.11</td><td>---</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>2 *</td><td>914.64</td><td>188.36</td><td>-----</td><td>185.68</td><td>4.48</td><td>29.55</td><td>31.19</td><td>---</td><td>---</td><td>---</td><td>Peak HORIZONTAL</td></tr></table>	Data: 2												Freq	Level	Over	Limit	Read	Cable/Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	dB	deg		1	482.48	38.00	-7.28	46.00	46.82	2.93	21.96	32.11	---	---	Peak HORIZONTAL	2 *	914.64	188.36	-----	185.68	4.48	29.55	31.19	---	---	---	Peak HORIZONTAL	<table><tr><th colspan="12">Data: 1</th></tr><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>Cable/Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr><tr><td>1</td><td>480.54</td><td>35.74</td><td>-10.26</td><td>46.00</td><td>43.12</td><td>2.92</td><td>21.81</td><td>32.11</td><td>---</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>2 *</td><td>914.64</td><td>115.78</td><td>-----</td><td>113.82</td><td>4.48</td><td>29.55</td><td>31.19</td><td>---</td><td>---</td><td>---</td><td>Peak VERTICAL</td></tr></table>	Data: 1												Freq	Level	Over	Limit	Read	Cable/Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	dB	deg		1	480.54	35.74	-10.26	46.00	43.12	2.92	21.81	32.11	---	---	Peak VERTICAL	2 *	914.64	115.78	-----	113.82	4.48	29.55	31.19	---	---	---	Peak VERTICAL
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FSK 50Kbps FHSS (Harmonic @ 3m)

LoRa	902.2~927.6 Harmonic @ 3m																																																																																																																																																																																							
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2	2786.48	53.38	-20.68	74.80	75.13	33.86	7.58	85.55	0.00	331	262 Peak	HORIZONTAL																																																																																																																																																																												
3	2786.48	37.86	-36.94	54.80	61.97	33.86	7.58	85.55	0.00	331	262 Average	HORIZONTAL																																																																																																																																																																												
4	5413.68	31.59	-22.41	74.80	75.09	35.25	18.79	85.45	0.00	180	287 Peak	HORIZONTAL																																																																																																																																																																												
5	5413.68	35.45	-18.55	54.80	54.86	35.25	18.79	85.45	0.00	180	287 Average	HORIZONTAL																																																																																																																																																																												
Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																																																												
MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dB	dB	dB	dB	dB	dB	dB	dB																																																																																																																																																																												
1	1841.48	48.52	-25.48	74.80	88.29	28.78	4.68	85.15	0.00	--	Peak	VERTICAL																																																																																																																																																																												
2	2786.48	58.16	-15.84	74.80	75.87	33.86	7.58	85.55	0.00	180	293 Peak	VERTICAL																																																																																																																																																																												
3	2786.48	34.82	-39.98	54.80	58.93	33.86	7.58	85.55	0.00	180	293 Average	VERTICAL																																																																																																																																																																												
4	5413.68	52.87	-11.13	74.80	72.28	35.25	18.79	85.45	0.00	180	43 Peak	VERTICAL																																																																																																																																																																												
5	5413.68	36.73	-38.07	54.80	56.14	35.25	18.79	85.45	0.00	180	43 Average	VERTICAL																																																																																																																																																																												



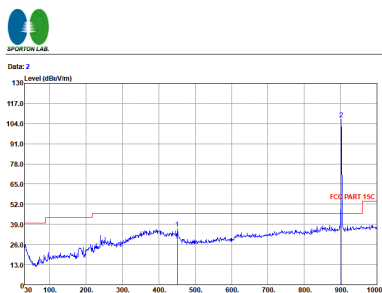
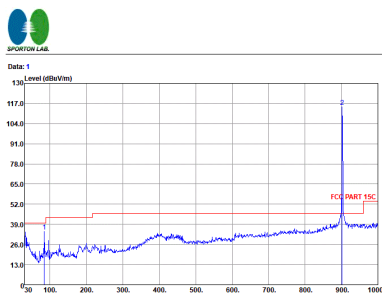
LoRa	902.2~927.6 Harmonic @ 3m																																																																																																																																																													
ANT	FSK 50Kbps FHSS CH65 915																																																																																																																																																													
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Peak	<table><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>dBuV/m</th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th></th></tr><tr><td>1</td><td>1893.20</td><td>-44.53</td><td>-29.47</td><td>74.88</td><td>70.57</td><td>28.41</td><td>4.71</td><td>65.16</td><td>0.00</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>2744.88</td><td>-11.46</td><td>-22.54</td><td>74.88</td><td>70.58</td><td>32.83</td><td>7.63</td><td>65.58</td><td>0.00</td><td>362</td><td>248 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>2744.88</td><td>-25.32</td><td>-18.68</td><td>74.88</td><td>68.26</td><td>32.83</td><td>7.63</td><td>65.58</td><td>0.00</td><td>362</td><td>248 Average</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5489.88</td><td>-52.15</td><td>-36.21</td><td>88.36</td><td>71.79</td><td>34.94</td><td>18.87</td><td>65.42</td><td>0.00</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		dBuV/m		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m			1	1893.20	-44.53	-29.47	74.88	70.57	28.41	4.71	65.16	0.00	--	Peak	HORIZONTAL	2	2744.88	-11.46	-22.54	74.88	70.58	32.83	7.63	65.58	0.00	362	248 Peak	HORIZONTAL	3	2744.88	-25.32	-18.68	74.88	68.26	32.83	7.63	65.58	0.00	362	248 Average	HORIZONTAL	4	5489.88	-52.15	-36.21	88.36	71.79	34.94	18.87	65.42	0.00	--	Peak	HORIZONTAL	<table><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>dBuV/m</th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th></th><th></th></tr><tr><td>1</td><td>1893.20</td><td>-44.53</td><td>-29.47</td><td>74.88</td><td>70.57</td><td>28.41</td><td>4.71</td><td>65.16</td><td>0.00</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>2744.88</td><td>-11.46</td><td>-22.54</td><td>74.88</td><td>70.58</td><td>32.83</td><td>7.63</td><td>65.58</td><td>0.00</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>2744.88</td><td>-25.32</td><td>-18.68</td><td>74.88</td><td>68.26</td><td>32.83</td><td>7.63</td><td>65.58</td><td>0.00</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>5489.88</td><td>-52.15</td><td>-36.21</td><td>88.36</td><td>71.79</td><td>34.94</td><td>18.87</td><td>65.42</td><td>0.00</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		dBuV/m		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dBuV/m			1	1893.20	-44.53	-29.47	74.88	70.57	28.41	4.71	65.16	0.00	--	Peak	VERTICAL	2	2744.88	-11.46	-22.54	74.88	70.58	32.83	7.63	65.58	0.00	--	Peak	VERTICAL	3	2744.88	-25.32	-18.68	74.88	68.26	32.83	7.63	65.58	0.00	--	Peak	VERTICAL	4	5489.88	-52.15	-36.21	88.36	71.79	34.94	18.87	65.42	0.00	--	Peak	VERTICAL
Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																																		
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4	5489.88	-52.15	-36.21	88.36	71.79	34.94	18.87	65.42	0.00	--	Peak	VERTICAL																																																																																																																																																		



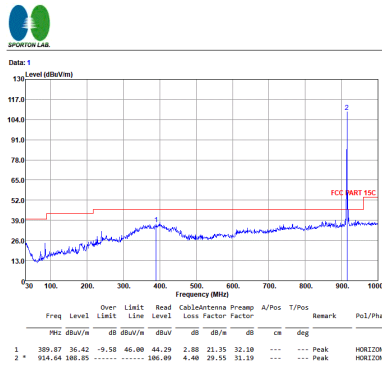
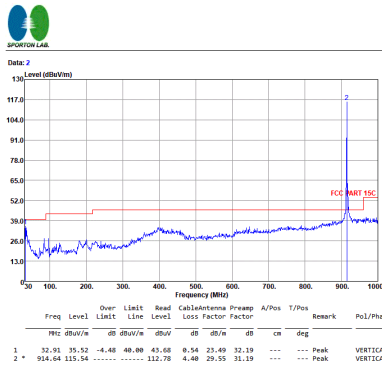
LoRa	902.2~927.6 Harmonic @ 3m																																																																																																																																																													
ANT	FSK 50Kbps FHSS CH129 927.6																																																																																																																																																													
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Peak	<table><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>dBuV/m</th><th></th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>1064.80</td><td>-44.94</td><td>-29.60</td><td>74.00</td><td>79.21</td><td>27.17</td><td>4.73</td><td>65.17</td><td>0.00</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>2782.68</td><td>51.52</td><td>-22.48</td><td>74.00</td><td>77.28</td><td>32.10</td><td>7.68</td><td>65.46</td><td>0.00</td><td>180</td><td>330 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>2782.68</td><td>51.58</td><td>-18.42</td><td>54.00</td><td>61.90</td><td>32.10</td><td>7.68</td><td>65.46</td><td>0.00</td><td>180</td><td>330 Average</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5565.48</td><td>53.28</td><td>-34.95</td><td>88.15</td><td>72.82</td><td>34.88</td><td>18.96</td><td>65.38</td><td>0.00</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		dBuV/m		dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB			1	1064.80	-44.94	-29.60	74.00	79.21	27.17	4.73	65.17	0.00	--	Peak	HORIZONTAL	2	2782.68	51.52	-22.48	74.00	77.28	32.10	7.68	65.46	0.00	180	330 Peak	HORIZONTAL	3	2782.68	51.58	-18.42	54.00	61.90	32.10	7.68	65.46	0.00	180	330 Average	HORIZONTAL	4	5565.48	53.28	-34.95	88.15	72.82	34.88	18.96	65.38	0.00	--	Peak	HORIZONTAL	<table><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>dBuV/m</th><th></th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>1871.68</td><td>-48.19</td><td>-15.75</td><td>74.00</td><td>81.68</td><td>27.88</td><td>4.78</td><td>65.17</td><td>0.00</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>2782.68</td><td>52.95</td><td>-21.05</td><td>74.00</td><td>79.43</td><td>32.18</td><td>7.68</td><td>65.46</td><td>0.00</td><td>300</td><td>326 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>2782.68</td><td>56.82</td><td>-17.18</td><td>54.00</td><td>62.40</td><td>32.18</td><td>7.68</td><td>65.46</td><td>0.00</td><td>300</td><td>326 Average</td><td>VERTICAL</td></tr><tr><td>4</td><td>5565.48</td><td>56.32</td><td>-41.09</td><td>97.41</td><td>75.94</td><td>34.88</td><td>18.96</td><td>65.38</td><td>0.00</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		dBuV/m		dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB			1	1871.68	-48.19	-15.75	74.00	81.68	27.88	4.78	65.17	0.00	--	Peak	VERTICAL	2	2782.68	52.95	-21.05	74.00	79.43	32.18	7.68	65.46	0.00	300	326 Peak	VERTICAL	3	2782.68	56.82	-17.18	54.00	62.40	32.18	7.68	65.46	0.00	300	326 Average	VERTICAL	4	5565.48	56.32	-41.09	97.41	75.94	34.88	18.96	65.38	0.00	--	Peak	VERTICAL
Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																																		
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1	1871.68	-48.19	-15.75	74.00	81.68	27.88	4.78	65.17	0.00	--	Peak	VERTICAL																																																																																																																																																		
2	2782.68	52.95	-21.05	74.00	79.43	32.18	7.68	65.46	0.00	300	326 Peak	VERTICAL																																																																																																																																																		
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FSK 150Kbps FHSS (Band Edge @ 3m)

LoRa	902.4~927.6 Band Edge @ 3m																																																																																																													
ANT	FSK 150Kbps FHSS CH01 902.4																																																																																																													
ANT	Horizontal	Vertical																																																																																																												
Peak	<table><tr><th></th><th>Over</th><th>L</th><th>Read</th><th>Cable</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>458.98</td><td>36.33</td><td>-9.67</td><td>46.00</td><td>42.49</td><td>3.89</td><td>22.88</td><td>32.13</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>2 *</td><td>902.83</td><td>106.91</td><td>-----</td><td>104.64</td><td>4.17</td><td>29.18</td><td>31.28</td><td>---</td><td>Peak HORIZONTAL</td></tr></table>		Over	L	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Poi/Phas		Freq	Level	Limit	Line	Level	Loss	Factor	Factor				MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	458.98	36.33	-9.67	46.00	42.49	3.89	22.88	32.13	---	Peak HORIZONTAL	2 *	902.83	106.91	-----	104.64	4.17	29.18	31.28	---	Peak HORIZONTAL	<table><tr><th></th><th>Over</th><th>L</th><th>Read</th><th>Cable</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>84.32</td><td>34.39</td><td>-5.61</td><td>40.00</td><td>51.33</td><td>1.24</td><td>13.88</td><td>32.86</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>2 *</td><td>902.83</td><td>114.69</td><td>-----</td><td>112.42</td><td>4.37</td><td>29.18</td><td>31.28</td><td>---</td><td>Peak VERTICAL</td></tr></table>		Over	L	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Poi/Phas		Freq	Level	Limit	Line	Level	Loss	Factor	Factor				MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	84.32	34.39	-5.61	40.00	51.33	1.24	13.88	32.86	---	Peak VERTICAL	2 *	902.83	114.69	-----	112.42	4.37	29.18	31.28	---	Peak VERTICAL
	Over	L	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Poi/Phas																																																																																																				
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	MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg																																																																																																					
1	84.32	34.39	-5.61	40.00	51.33	1.24	13.88	32.86	---	Peak VERTICAL																																																																																																				
2 *	902.83	114.69	-----	112.42	4.37	29.18	31.28	---	Peak VERTICAL																																																																																																					



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Over	Level	Read	Cable/Antenna	Preamp	A/Pos	T/Pos	Remark	Po1/Phas																																																																																																
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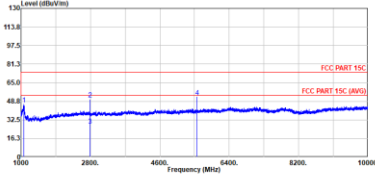
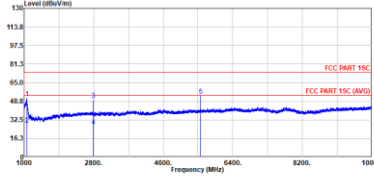
FSK 150Kbps FHSS (Harmonic @ 3m)

LoRa	902.4~927.6 Harmonic @ 3m																																																																																																																																																																																							
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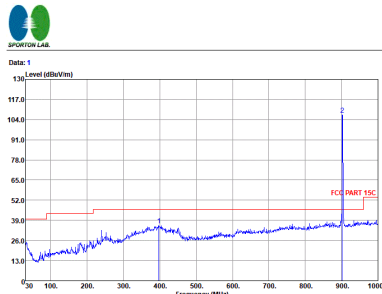
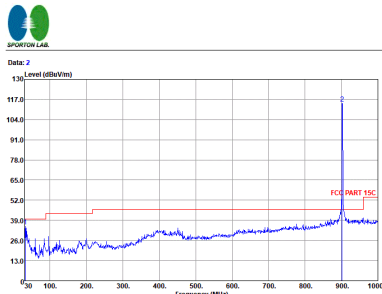
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Peak	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Poi/Phase</th></tr><tr><th>MHz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th></tr><tr><td>1</td><td>1897.00</td><td>-44.82</td><td>-29.16</td><td>74.00</td><td>70.95</td><td>28.42</td><td>4.71</td><td>65.16</td><td>0.00</td><td>-- Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>2744.20</td><td>-51.83</td><td>-22.17</td><td>74.00</td><td>71.87</td><td>32.83</td><td>7.63</td><td>65.59</td><td>0.00</td><td>113 263 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>2744.20</td><td>-28.73</td><td>-25.27</td><td>54.00</td><td>53.77</td><td>32.83</td><td>7.63</td><td>65.59</td><td>0.00</td><td>113 263 Average</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5489.20</td><td>-52.48</td><td>-36.45</td><td>88.95</td><td>72.81</td><td>34.94</td><td>18.87</td><td>65.42</td><td>0.00</td><td>-- Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Poi/Phase	MHz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	1	1897.00	-44.82	-29.16	74.00	70.95	28.42	4.71	65.16	0.00	-- Peak	HORIZONTAL	2	2744.20	-51.83	-22.17	74.00	71.87	32.83	7.63	65.59	0.00	113 263 Peak	HORIZONTAL	3	2744.20	-28.73	-25.27	54.00	53.77	32.83	7.63	65.59	0.00	113 263 Average	HORIZONTAL	4	5489.20	-52.48	-36.45	88.95	72.81	34.94	18.87	65.42	0.00	-- Peak	HORIZONTAL	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Poi/Phase</th></tr><tr><th>MHz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th></tr><tr><td>1</td><td>1893.00</td><td>-49.85</td><td>-24.15</td><td>74.00</td><td>61.95</td><td>28.36</td><td>4.72</td><td>65.16</td><td>0.00</td><td>-- Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>2744.20</td><td>-58.84</td><td>-23.16</td><td>74.00</td><td>75.88</td><td>32.83</td><td>7.63</td><td>65.59</td><td>0.00</td><td>300 296 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>5489.20</td><td>-54.17</td><td>-41.37</td><td>95.54</td><td>73.70</td><td>34.94</td><td>18.87</td><td>65.42</td><td>0.00</td><td>-- Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Poi/Phase	MHz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	1	1893.00	-49.85	-24.15	74.00	61.95	28.36	4.72	65.16	0.00	-- Peak	VERTICAL	2	2744.20	-58.84	-23.16	74.00	75.88	32.83	7.63	65.59	0.00	300 296 Peak	VERTICAL	3	5489.20	-54.17	-41.37	95.54	73.70	34.94	18.87	65.42	0.00	-- Peak	VERTICAL
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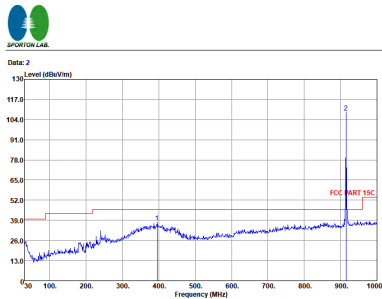
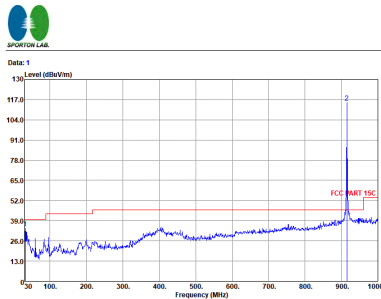
LoRa	902.4~927.6 Harmonic @ 3m																																																																																																																																												
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Line	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																			
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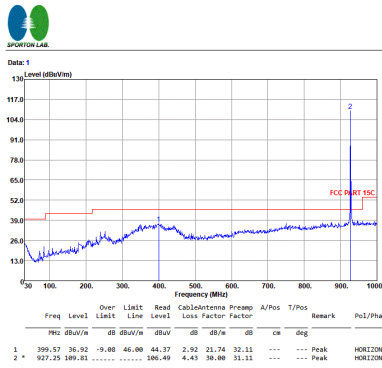
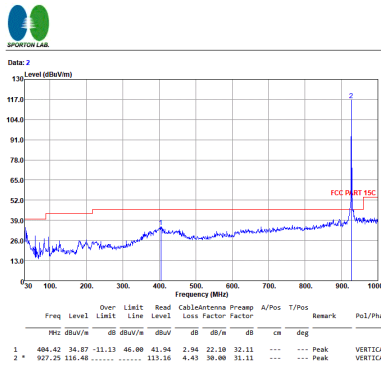
FSK 250Kbps FHSS (Band Edge @ 3m)

LoRa	902.5~927.5 Band Edge @ 3m																																																																																																																																				
ANT	FSK 250Kbps FHSS CH01 902.5																																																																																																																																				
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Peak	 <table><tr><th colspan="11">Data: 1</th></tr><tr><th>Over</th><th>Llimit</th><th>Read</th><th>CableLoss</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>397.63</td><td>35.98</td><td>-18.82</td><td>46.00</td><td>43.52</td><td>2.91</td><td>21.66</td><td>32.11</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>2</td><td>902.83</td><td>187.87</td><td>-----</td><td>104.88</td><td>4.17</td><td>29.18</td><td>31.28</td><td>---</td><td>---</td><td>Peak HORIZONTAL</td></tr></table>  <table><tr><th colspan="11">Data: 2</th></tr><tr><th>Over</th><th>Llimit</th><th>Read</th><th>CableLoss</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>32.91</td><td>35.24</td><td>-4.76</td><td>48.00</td><td>43.40</td><td>0.54</td><td>23.49</td><td>32.19</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>2</td><td>902.83</td><td>114.44</td><td>-----</td><td>112.17</td><td>4.17</td><td>29.18</td><td>31.28</td><td>---</td><td>---</td><td>Peak VERTICAL</td></tr></table>	Data: 1											Over	Llimit	Read	CableLoss	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		Freq	Level	Limit	Line	Level	Loss	Factor	Factor				MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB	cm	deg		1	397.63	35.98	-18.82	46.00	43.52	2.91	21.66	32.11	---	Peak HORIZONTAL	2	902.83	187.87	-----	104.88	4.17	29.18	31.28	---	---	Peak HORIZONTAL	Data: 2											Over	Llimit	Read	CableLoss	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		Freq	Level	Limit	Line	Level	Loss	Factor	Factor				MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB/m	dB	cm	deg		1	32.91	35.24	-4.76	48.00	43.40	0.54	23.49	32.19	---	Peak VERTICAL	2	902.83	114.44	-----	112.17	4.17	29.18	31.28	---	---	Peak VERTICAL
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LoRa	902.5–927.5 Band Edge @ 3m																																																																																																																								
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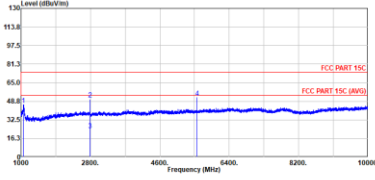
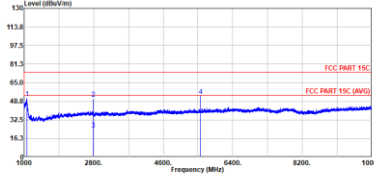
FSK 250Kbps FHSS (Harmonic @ 3m)

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5	5414.28	22.38	-51.78	54.80	41.72	35.24	18.79	85.45	0.00	360	Average	HORIZONTAL																																																																																																																																																		
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1	1858.48	44.12	-29.88	74.80	76.94	28.54	4.78	85.16	0.00	--	Peak	VERTICAL																																																																																																																																																		
2	2787.00	51.48	-22.52	74.80	76.30	33.86	7.58	85.55	0.00	360	Peak	VERTICAL																																																																																																																																																		
3	2787.00	23.18	-38.58	54.80	48.02	33.86	7.58	85.55	0.00	360	Average	VERTICAL																																																																																																																																																		
4	5415.48	52.79	-22.21	74.80	72.21	35.24	18.79	85.45	0.00	360	Peak	VERTICAL																																																																																																																																																		
5	5415.48	25.85	-28.15	54.80	45.27	35.24	18.79	85.45	0.00	360	Average	VERTICAL																																																																																																																																																		



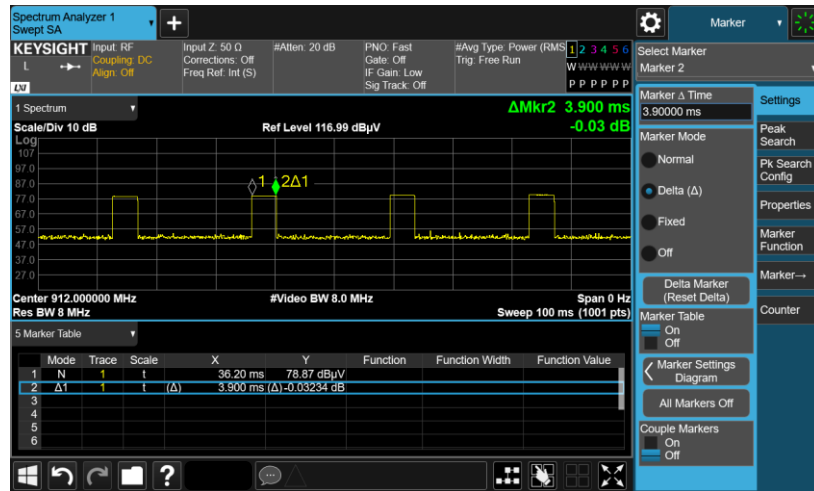
LoRa	902.5~927.5 Harmonic @ 3m																																																																																																																																									
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Peak	<table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Poi/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><td>1</td><td>1094.00</td><td>44.72</td><td>-29.29</td><td>74.00</td><td>70.70</td><td>20.47</td><td>4.70</td><td>65.16</td><td>0.00</td><td>-- Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>2744.00</td><td>52.09</td><td>-21.91</td><td>74.00</td><td>77.13</td><td>32.83</td><td>7.63</td><td>65.50</td><td>0.00</td><td>111 352 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>2744.00</td><td>25.15</td><td>-20.85</td><td>54.00</td><td>50.19</td><td>32.83</td><td>7.63</td><td>65.50</td><td>0.00</td><td>111 352 Average</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5489.00</td><td>54.73</td><td>-33.91</td><td>88.64</td><td>74.34</td><td>34.94</td><td>10.87</td><td>65.42</td><td>0.00</td><td>-- Peak</td><td>HORIZONTAL</td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Poi/Phase	Freq	Level	Margin	Line	Level	Factor	Loss	Factor	Factor		1	1094.00	44.72	-29.29	74.00	70.70	20.47	4.70	65.16	0.00	-- Peak	HORIZONTAL	2	2744.00	52.09	-21.91	74.00	77.13	32.83	7.63	65.50	0.00	111 352 Peak	HORIZONTAL	3	2744.00	25.15	-20.85	54.00	50.19	32.83	7.63	65.50	0.00	111 352 Average	HORIZONTAL	4	5489.00	54.73	-33.91	88.64	74.34	34.94	10.87	65.42	0.00	-- Peak	HORIZONTAL	<table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Poi/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Margin</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><td>1</td><td>1094.00</td><td>49.71</td><td>-34.29</td><td>74.00</td><td>81.77</td><td>20.38</td><td>4.72</td><td>65.16</td><td>0.00</td><td>-- Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>2744.00</td><td>51.68</td><td>-22.32</td><td>74.00</td><td>70.72</td><td>32.83</td><td>7.63</td><td>65.50</td><td>0.00</td><td>375 274 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>2744.00</td><td>24.74</td><td>-20.26</td><td>54.00</td><td>49.70</td><td>32.83</td><td>7.63</td><td>65.50</td><td>0.00</td><td>375 274 Average</td><td>VERTICAL</td></tr><tr><td>4</td><td>5489.00</td><td>55.41</td><td>-39.91</td><td>95.32</td><td>75.82</td><td>34.94</td><td>10.87</td><td>65.42</td><td>0.00</td><td>-- Peak</td><td>VERTICAL</td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Poi/Phase	Freq	Level	Margin	Line	Level	Factor	Loss	Factor	Factor		1	1094.00	49.71	-34.29	74.00	81.77	20.38	4.72	65.16	0.00	-- Peak	VERTICAL	2	2744.00	51.68	-22.32	74.00	70.72	32.83	7.63	65.50	0.00	375 274 Peak	VERTICAL	3	2744.00	24.74	-20.26	54.00	49.70	32.83	7.63	65.50	0.00	375 274 Average	VERTICAL	4	5489.00	55.41	-39.91	95.32	75.82	34.94	10.87	65.42	0.00	-- Peak	VERTICAL
Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Poi/Phase																																																																																																																																	
Freq	Level	Margin	Line	Level	Factor	Loss	Factor	Factor																																																																																																																																		
1	1094.00	44.72	-29.29	74.00	70.70	20.47	4.70	65.16	0.00	-- Peak	HORIZONTAL																																																																																																																															
2	2744.00	52.09	-21.91	74.00	77.13	32.83	7.63	65.50	0.00	111 352 Peak	HORIZONTAL																																																																																																																															
3	2744.00	25.15	-20.85	54.00	50.19	32.83	7.63	65.50	0.00	111 352 Average	HORIZONTAL																																																																																																																															
4	5489.00	54.73	-33.91	88.64	74.34	34.94	10.87	65.42	0.00	-- Peak	HORIZONTAL																																																																																																																															
Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Poi/Phase																																																																																																																																	
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2	2744.00	51.68	-22.32	74.00	70.72	32.83	7.63	65.50	0.00	375 274 Peak	VERTICAL																																																																																																																															
3	2744.00	24.74	-20.26	54.00	49.70	32.83	7.63	65.50	0.00	375 274 Average	VERTICAL																																																																																																																															
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LoRa	902.5~927.5 Harmonic @ 3m																																																																																																																																																	
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Peak	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>1897.00</td><td>-45.79</td><td>-28.11</td><td>74.00</td><td>27.62</td><td>28.42</td><td>6.71</td><td>65.16</td><td>0.00</td><td>-- Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>2782.68</td><td>-58.72</td><td>-23.23</td><td>74.00</td><td>75.98</td><td>32.68</td><td>7.68</td><td>65.46</td><td>0.00</td><td>268 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>2782.68</td><td>-23.78</td><td>-78.22</td><td>54.00</td><td>48.96</td><td>32.68</td><td>7.68</td><td>65.46</td><td>0.00</td><td>268 Average</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>5505.40</td><td>-51.96</td><td>-37.83</td><td>89.01</td><td>71.40</td><td>34.99</td><td>18.96</td><td>65.38</td><td>0.00</td><td>-- Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		dBuV/m	dBuV/m	dBuV/m	Factor	Loss	Factor	Factor					1	1897.00	-45.79	-28.11	74.00	27.62	28.42	6.71	65.16	0.00	-- Peak	HORIZONTAL	2	2782.68	-58.72	-23.23	74.00	75.98	32.68	7.68	65.46	0.00	268 Peak	HORIZONTAL	3	2782.68	-23.78	-78.22	54.00	48.96	32.68	7.68	65.46	0.00	268 Average	HORIZONTAL	4	5505.40	-51.96	-37.83	89.01	71.40	34.99	18.96	65.38	0.00	-- Peak	HORIZONTAL	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>1897.00</td><td>-51.34</td><td>-22.65</td><td>74.00</td><td>83.61</td><td>28.15</td><td>6.78</td><td>65.17</td><td>0.00</td><td>-- Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>2782.68</td><td>-51.28</td><td>-22.89</td><td>74.00</td><td>76.38</td><td>32.68</td><td>7.68</td><td>65.46</td><td>0.00</td><td>268 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>2782.68</td><td>-24.26</td><td>-29.74</td><td>54.00</td><td>49.44</td><td>32.68</td><td>7.68</td><td>65.46</td><td>0.00</td><td>268 Average</td><td>VERTICAL</td></tr><tr><td>4</td><td>5505.40</td><td>-53.64</td><td>-42.84</td><td>96.40</td><td>73.16</td><td>34.99</td><td>18.96</td><td>65.38</td><td>0.00</td><td>-- Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		dBuV/m	dBuV/m	dBuV/m	Factor	Loss	Factor	Factor					1	1897.00	-51.34	-22.65	74.00	83.61	28.15	6.78	65.17	0.00	-- Peak	VERTICAL	2	2782.68	-51.28	-22.89	74.00	76.38	32.68	7.68	65.46	0.00	268 Peak	VERTICAL	3	2782.68	-24.26	-29.74	54.00	49.44	32.68	7.68	65.46	0.00	268 Average	VERTICAL	4	5505.40	-53.64	-42.84	96.40	73.16	34.99	18.96	65.38	0.00	-- Peak	VERTICAL
Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																							
	dBuV/m	dBuV/m	dBuV/m	Factor	Loss	Factor	Factor																																																																																																																																											
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Appendix E. Duty Cycle Plots

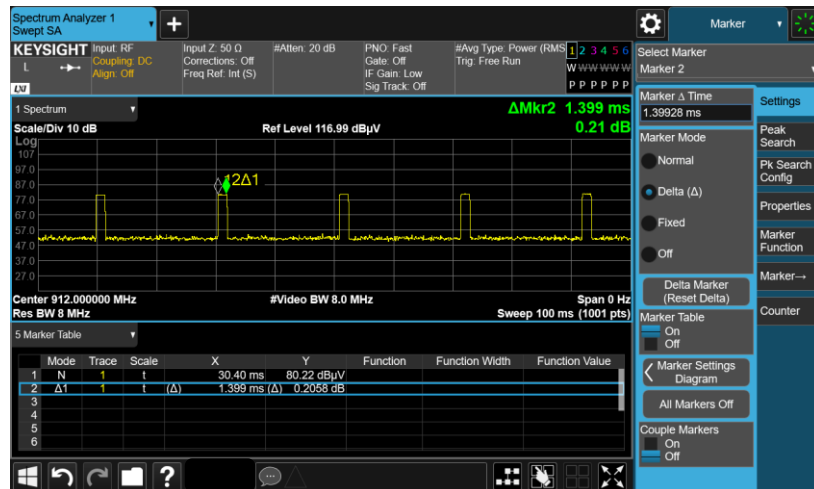
FSK 50Kbps on time Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $4 * 3.9 / 100 = 15.60 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -16.14 \text{ dB}$

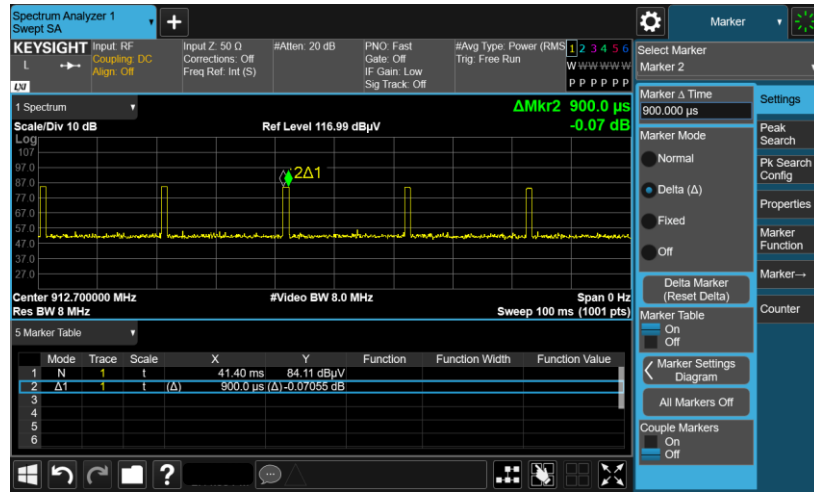
FSK 150Kbps on time Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $5 * 1.399 / 100 = 7.00 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -23.10 \text{ dB}$

FSK 250Kbps on time Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $5 * 0.9 / 100 = 4.50 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -26.94 \text{ dB}$