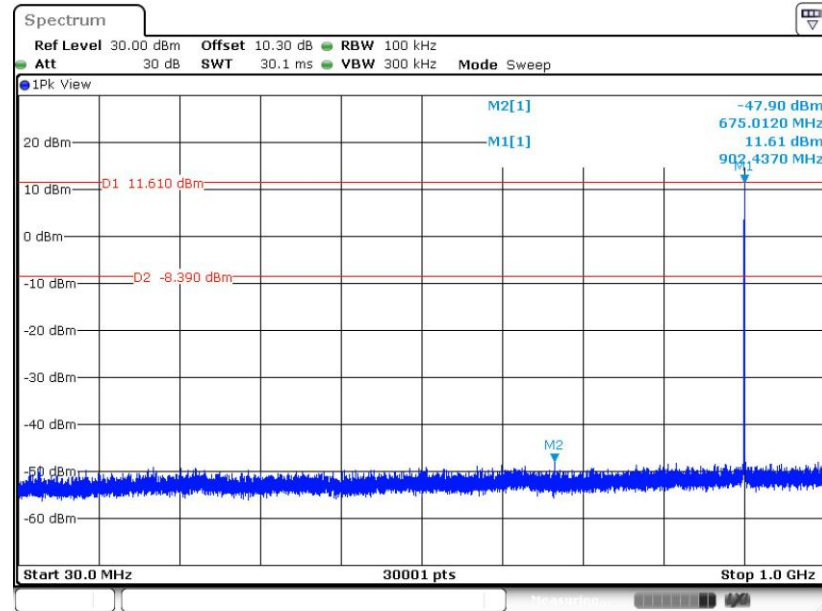


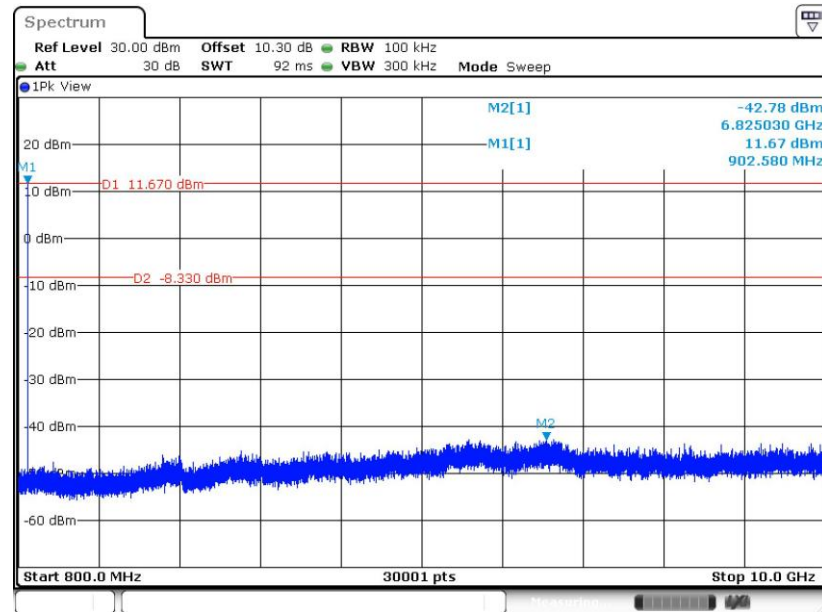


<Data Rate 250kbps>

Low CH CSE Plot

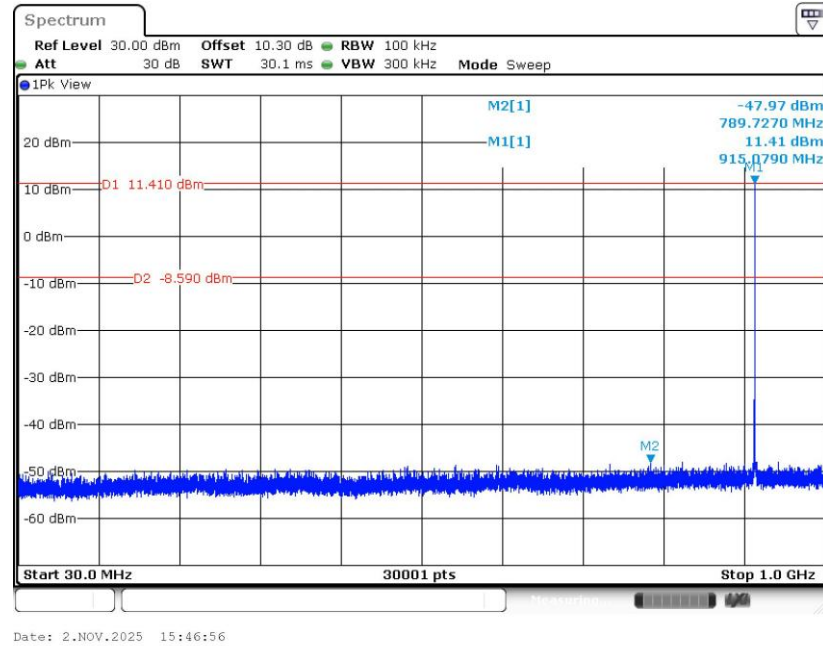


Low CH CSE Plot

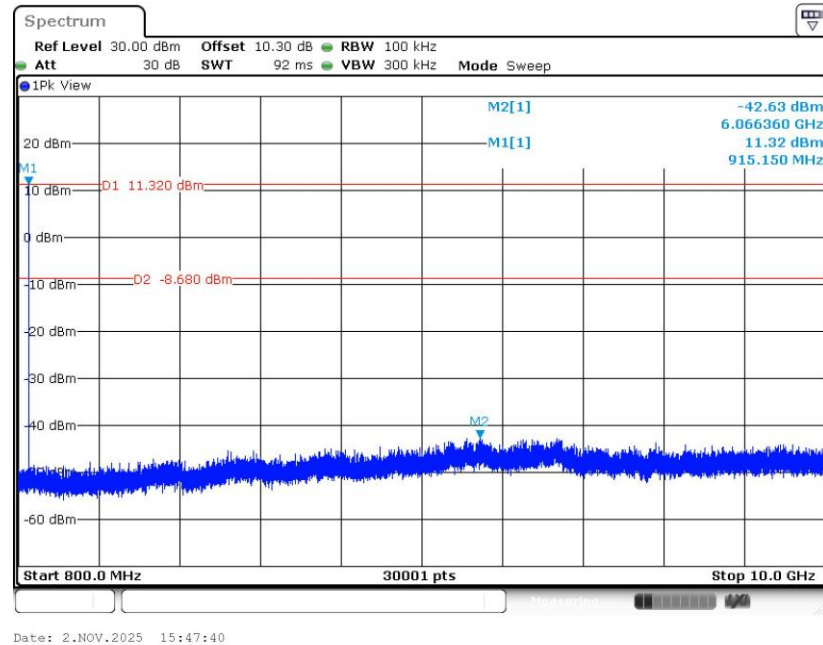




Mid CH CSE Plot

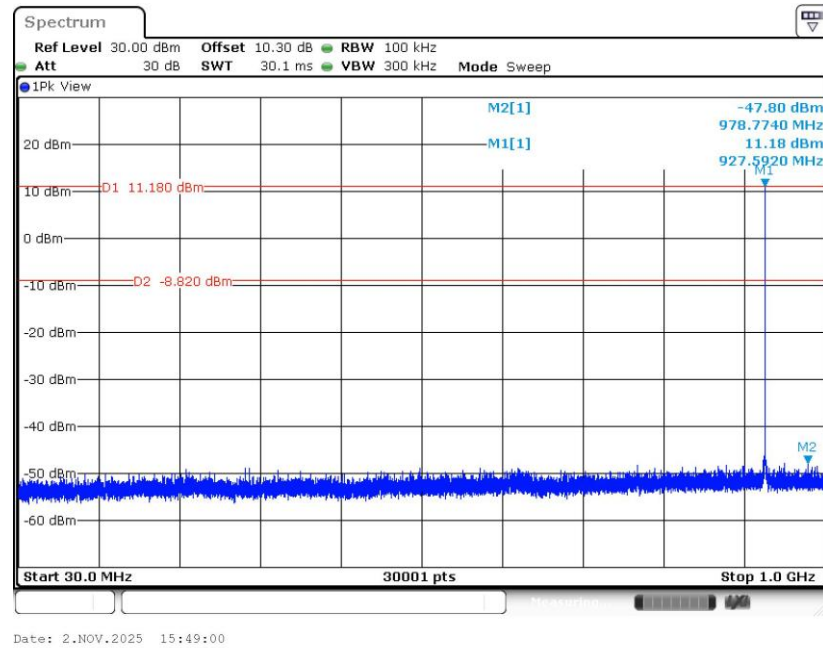


Mid CH CSE Plot

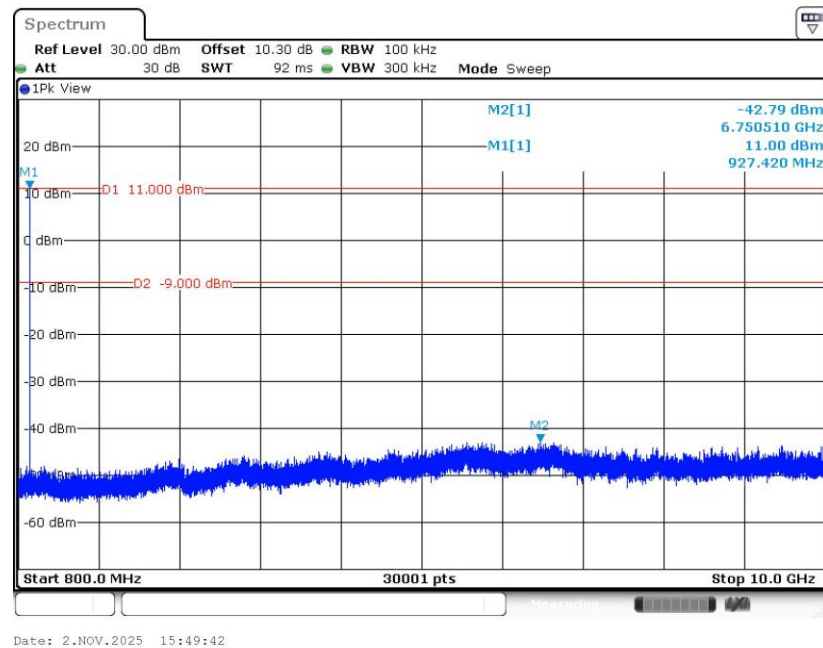




High CH CSE Plot



High CH CSE Plot



3.8 Radiated Spurious Emission Measurement

3.8.1 Limit of Radiated Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

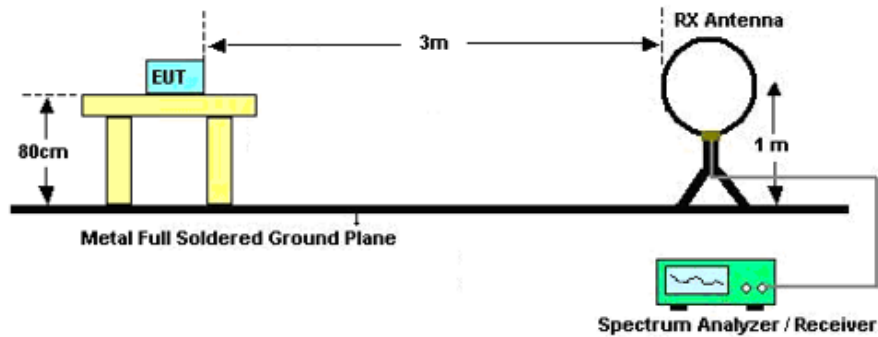
3.8.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1 \text{ GHz}$, RBW=1MHz for $f > 1\text{GHz}$; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method.
Duty cycle = On time/100 milliseconds
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$

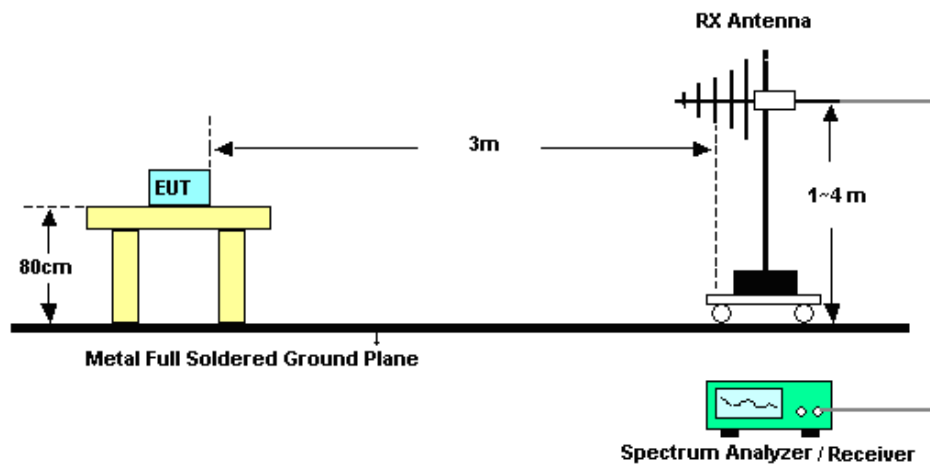
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
8. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
9. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.8.4 Test Setup

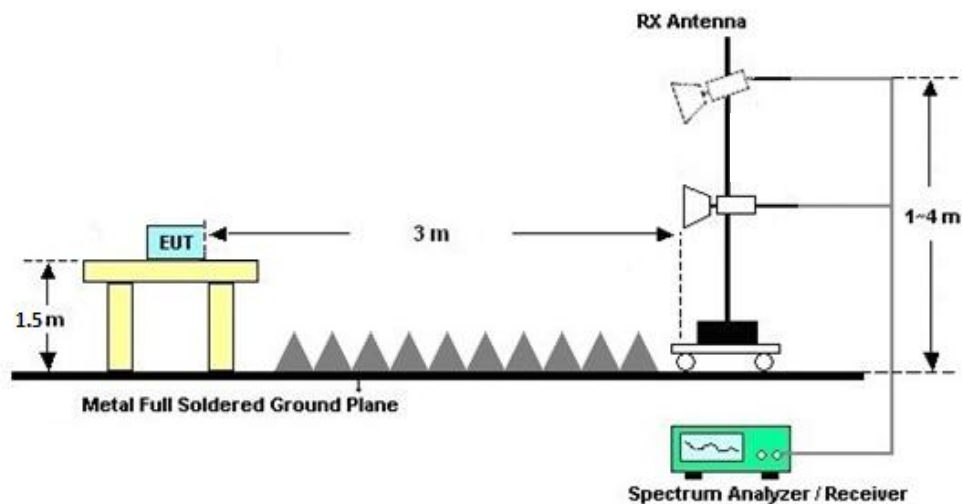
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B&C.

3.8.7 Duty cycle

Please refer to Appendix D.



3.9 Antenna Requirements

3.9.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.9.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Nov. 01, 2025~ Nov. 04, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 01, 2025~ Nov. 04, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 01, 2025~ Nov. 04, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 01, 2025~ Nov. 04, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Oct. 31, 2025~ Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Oct. 31, 2025~ Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Oct. 31, 2025~ Dec. 03, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Oct. 31, 2025~ Dec. 03, 2025	Aug. 18, 2026	Radiation (03CH03-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2025	Oct. 31, 2025~ Dec. 03, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Oct. 31, 2025~ Dec. 03, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Oct. 31, 2025~ Dec. 03, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Oct. 31, 2025~ Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 13, 2025	Oct. 31, 2025~ Dec. 03, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Oct. 31, 2025~ Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Oct. 31, 2025~ Dec. 03, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 31, 2025~ Dec. 03, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 31, 2025~ Dec. 03, 2025	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required.

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9dB
---	-------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

----- THE END -----



Appendix A. Conducted Test Results

FSK-FHSS-50Kbps

Test Engineer:	Sam Zheng	Temperature:	20~26	°C
Test Date:	2025/11/1~2025/11/4	Relative Humidity:	40~51	%

TEST RESULTS DATA
20dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	20db BW Limit (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	50Kbps	1	1	902.2	0.104	0.500	0.102	0.200	0.104	Pass
FSK	50Kbps	1	65	915	0.107	0.500	0.104	0.200	0.107	Pass
FSK	50Kbps	1	129	927.8	0.104	0.500	0.102	0.200	0.104	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK	129	1.00	381.44	0.381	0.4	Pass

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.2	1	11.98	14.00	30.00	-3.30	8.68	36	Pass
	915	1	11.62	14.00	30.00	-3.30	8.32	36	Pass
	927.8	1	11.23	14.00	30.00	-3.30	7.93	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

Number of Hopping (Channel)	Limits (Channel)	Pass/Fail
129	> 50	Pass

FSK-FHSS-150Kbps**TEST RESULTS DATA**
20dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	Freq. (MHz)	20db BW (MHz)	20db BW Limit (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	150Kbps	1	902.4	0.169	0.500	0.153	0.401	0.169	Pass
FSK	150Kbps	1	915.2	0.171	0.500	0.158	0.401	0.171	Pass
FSK	150Kbps	1	927.6	0.172	0.500	0.155	0.401	0.172	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK	64	1.00	371.76	0.372	0.4	Pass

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.4	1	11.92	14.00	30.00	-3.30	8.62	36	Pass
	915.2	1	11.66	14.00	30.00	-3.30	8.36	36	Pass
	927.6	1	11.21	14.00	30.00	-3.30	7.91	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

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

FSK-FHSS-250Kbps**TEST RESULTS DATA**
20dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	Freq. (MHz)	20db BW (MHz)	20db BW Limit (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
FSK	250Kbps	1	902.5	0.263	0.500	0.250	0.499	0.263	Pass
FSK	250Kbps	1	915	0.266	0.500	0.253	0.499	0.266	Pass
FSK	250Kbps	1	927.5	0.264	0.500	0.253	0.499	0.264	Pass

TEST RESULTS DATA
Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
FSK	51	1.00	377.76	0.378	0.4	Pass

TEST RESULTS DATA
Peak Power Table

mode	Freq. (MHz)	NTX	Peak Power (dBm)	Power Setting	Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Test Result
FSK	902.5	1	11.94	14.00	30.00	-3.30	8.64	36	Pass
	915	1	11.62	14.00	30.00	-3.30	8.32	36	Pass
	927.5	1	11.31	14.00	30.00	-3.30	8.01	36	Pass

TEST RESULTS DATA
Number of Hopping Frequency

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



Appendix B. Radiated Spurious Emission

FSK 50K (Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
902.2MHz		2706.6	46	-28	74	62.93	32.3	8.61	57.84	100	326	P	H
		2706.6	45.6	-8.4	54	62.53	32.3	8.61	57.84	100	326	A	H
		3608.8	42.95	-31.05	74	58.38	32.9	9.67	58	-	-	P	H
		2706.6	46.53	-27.47	74	63.46	32.3	8.61	57.84	119	244	P	V
		2706.6	46.13	-7.87	54	63.06	32.3	8.61	57.84	119	244	A	V
		3608.8	42.8	-31.2	74	58.23	32.9	9.67	58	-	-	P	V
915MHz		2745	45.91	-28.09	74	62.89	32.25	8.62	57.85	100	211	P	H
		2745	45.51	-8.49	54	62.49	32.25	8.62	57.85	100	211	A	H
		3660	42.83	-31.17	74	58.19	33	9.64	58	-	-	P	H
		2745	46.08	-27.92	74	63.06	32.25	8.62	57.85	125	142	P	V
		2745	45.68	-8.32	54	62.66	32.25	8.62	57.85	125	142	A	V
		3660	43.19	-30.81	74	58.55	33	9.64	58	-	-	P	V
927.8MHz		2783.4	45.71	-28.29	74	62.72	32.22	8.63	57.86	100	177	P	H
		2783.4	45.31	-8.69	54	62.32	32.22	8.63	57.86	100	177	A	H
		3711.2	43.54	-30.46	74	58.83	33.1	9.61	58	-	-	P	H
		2783.4	46.95	-27.05	74	63.96	32.22	8.63	57.86	136	254	P	V
		2783.4	46.55	-7.45	54	63.56	32.22	8.63	57.86	136	254	A	V
		3711.2	42.6	-31.4	74	57.89	33.1	9.61	58	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 150K (Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					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		2707.2	46.97	-27.03	74	63.92	32.28	8.61	57.84	142	185	P	H
		2707.2	45.76	-8.24	54	62.71	32.28	8.61	57.84	142	185	A	H
		3609.6	44.48	-29.52	74	59.91	32.9	9.67	58	-	-	P	H
		2707.2	45.83	-28.17	74	62.78	32.28	8.61	57.84	105	42	P	V
		2707.2	44.62	-9.38	54	61.57	32.28	8.61	57.84	105	42	A	V
		3609.6	44.07	-29.93	74	59.5	32.9	9.67	58	-	-	P	V
915.2MHz		2745.6	45.98	-28.02	74	62.96	32.25	8.62	57.85	100	87	P	H
		2745.6	44.77	-9.23	54	61.75	32.25	8.62	57.85	100	87	A	H
		3660.8	42.64	-31.36	74	58	33	9.64	58	-	-	P	H
		2745.6	46.2	-27.8	74	63.18	32.25	8.62	57.85	136	290	P	V
		2745.6	44.99	-9.01	54	61.97	32.25	8.62	57.85	136	290	A	V
		3660.8	42.37	-31.63	74	57.73	33	9.64	58	-	-	P	V
927.6MHz		2782.8	46.03	-27.97	74	63.04	32.22	8.63	57.86	163	122	P	H
		2782.8	44.82	-9.18	54	61.83	32.22	8.63	57.86	163	122	A	H
		3710.4	42.92	-31.08	74	58.21	33.1	9.61	58	-	-	P	H
		2782.8	46.43	-27.57	74	63.44	32.22	8.63	57.86	136	322	P	V
		2782.8	45.22	-8.78	54	62.23	32.22	8.63	57.86	136	322	A	V
		3710.4	42.82	-31.18	74	58.11	33.1	9.61	58	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 250K (Harmonic @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					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		2707.5	46.04	-27.96	74	62.99	32.28	8.61	57.84	109	32	P	H
		2707.5	43.94	-10.06	54	60.89	32.28	8.61	57.84	109	32	A	H
		3610	43.43	-30.57	74	58.84	32.93	9.66	58	-	-	P	H
		2707.5	46.47	-27.53	74	63.42	32.28	8.61	57.84	144	271	P	V
		2707.5	44.37	-9.63	54	61.32	32.28	8.61	57.84	144	271	A	V
		3610	43.51	-30.49	74	58.92	32.93	9.66	58	-	-	P	V
915.0MHz		2745	45.79	-28.21	74	62.77	32.25	8.62	57.85	100	214	P	H
		2745	43.69	-10.31	54	60.67	32.25	8.62	57.85	100	214	A	H
		3660	43.84	-30.16	74	59.2	33	9.64	58	-	-	P	H
		2745	46.7	-27.3	74	63.68	32.25	8.62	57.85	107	182	P	V
		2745	44.6	-9.4	54	61.58	32.25	8.62	57.85	107	182	A	V
		3660	43.24	-30.76	74	58.6	33	9.64	58	-	-	P	V
927.5MHz		2782.5	45.83	-28.17	74	62.84	32.22	8.63	57.86	100	21	P	H
		2782.5	43.73	-10.27	54	60.74	32.22	8.63	57.86	100	21	A	H
		3710	42.54	-31.46	74	57.83	33.1	9.61	58	-	-	P	H
		2782.5	46.77	-27.23	74	63.78	32.22	8.63	57.86	105	140	P	V
		2782.5	44.67	-9.33	54	61.68	32.22	8.63	57.86	105	140	A	V
		3710	42.66	-31.34	74	57.95	33.1	9.61	58	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



< 30Mhz-1G>

FSK 50K (LF@ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					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		133.79	21.91	-21.59	43.5	36.7	17.88	2.23	34.9	-	-	P	H
		282.2	23.7	-22.3	46	36.44	18.86	3.14	34.74	-	-	P	H
	*	902.2	100	---	46	100.44	29.14	4.42	34	-	-	P	H
		136.7	21.26	-22.24	43.5	35.79	18.12	2.25	34.9	-	-	P	V
		280.26	22.74	-23.26	46	35.56	18.79	3.13	34.74	-	-	P	V
	*	902.2	90.83	---	---	91.27	29.14	4.42	34	-	-	P	V
915MHz		128.94	20.9	-22.6	43.5	35.98	17.62	2.2	34.9	-	-	P	H
		240.49	23.27	-22.73	46	37.7	17.43	2.96	34.82	-	-	P	H
	*	915	100.43	---	---	100.64	29.34	4.45	34	-	-	P	H
		130.88	21.33	-22.17	43.5	36.28	17.73	2.22	34.9	-	-	P	V
		283.17	23.29	-22.71	46	36.06	18.83	3.14	34.74	-	-	P	V
	*	915	90.41	---	---	90.62	29.34	4.45	34	-	-	P	V
927.8MHz		123.12	21.91	-21.59	43.5	37.65	16.99	2.17	34.9	-	-	P	H
		280.26	23.49	-22.51	46	36.31	18.79	3.13	34.74	-	-	P	H
	*	927.8	101.97	---	---	101.73	29.77	4.47	34	-	-	P	H
		136.7	20.79	-22.71	43.5	35.32	18.12	2.25	34.9	-	-	P	V
		271.53	22.97	-23.03	46	36.14	18.49	3.1	34.76	-	-	P	V
	*	927.8	92.58	---	---	92.34	29.77	4.47	34	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 150K (LF@ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					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		137.67	21.77	-21.73	43.5	36.21	18.2	2.26	34.9	-	-	P	H
		259.89	23.78	-22.22	46	37.43	18.08	3.05	34.78	-	-	P	H
	*	902.4	99.89	---	---	100.33	29.14	4.42	34	-	-	P	H
		133.79	20.91	-22.59	43.5	35.7	17.88	2.23	34.9	-	-	P	V
		270.56	23.86	-22.14	46	37.08	18.45	3.09	34.76	-	-	P	V
	*	902.4	89.52	---	---	89.96	29.14	4.42	34	-	-	P	V
915.2MHz		134.76	21.21	-22.29	43.5	35.91	17.96	2.24	34.9	-	-	P	H
		280.26	24.17	-21.83	46	37.04	18.74	3.13	34.74	-	-	P	H
	*	915.2	100.41	---	---	100.62	29.34	4.45	34	-	-	P	H
		136.7	21.41	-22.09	43.5	35.99	18.07	2.25	34.9	-	-	P	V
		284.14	23.54	-22.46	46	36.26	18.86	3.15	34.73	-	-	P	V
	*	915.2	90.83	---	---	91.04	29.34	4.45	34	-	-	P	V
927.6MHz		128.94	20.82	-22.68	43.5	36.05	17.47	2.2	34.9	-	-	P	H
		273.47	23.61	-22.39	46	36.71	18.55	3.1	34.75	-	-	P	H
	*	927.6	101.46	---	---	101.25	29.74	4.47	34	-	-	P	H
		137.67	21.09	-22.41	43.5	35.53	18.2	2.26	34.9	-	-	P	V
		260.86	23.32	-22.68	46	36.94	18.11	3.05	34.78	-	-	P	V
	*	927.6	90.32	---	---	90.11	29.74	4.47	34	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 250K (LF@ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
					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		129.91	21.15	-22.35	43.5	36.28	17.56	2.21	34.9	-	-	P	H
		274.44	22.75	-23.25	46	35.8	18.59	3.11	34.75	-	-	P	H
	*	902.5	99.9	---	---	100.34	29.14	4.42	34	-	-	P	H
		134.76	20.98	-22.52	43.5	35.68	17.96	2.24	34.9	-	-	P	V
		273.47	23.9	-22.1	46	37	18.55	3.1	34.75	-	-	P	V
	*	902.5	89.14	---	---	89.58	29.14	4.42	34	-	-	P	V
915MHz		133.79	21.51	-21.99	43.5	36.28	17.9	2.23	34.9			P	H
		280.26	22.9	-23.1	46	35.77	18.74	3.13	34.74			P	H
	*	915	99.8	---	---	100.01	29.34	4.45	34			P	H
		131.85	22.51	-20.99	43.5	37.4	17.79	2.22	34.9			P	V
		277.35	23.59	-22.41	46	36.57	18.65	3.12	34.75			P	V
	*	915	90.78	---	---	90.99	29.34	4.45	34			P	V
927.5MHz		137.67	21.53	-21.97	43.5	35.97	18.2	2.26	34.9	-	-	P	H
		285.11	23.33	-22.67	46	35.95	18.96	3.15	34.73	-	-	P	H
	*	927.5	101.38	---	---	101.17	29.74	4.47	34	-	-	P	H
		135.73	21.34	-22.16	43.5	35.95	18.04	2.25	34.9	-	-	P	V
		268.62	22.75	-23.25	46	36.05	18.38	3.08	34.76	-	-	P	V
	*	927.5	90.42	---	---	90.21	29.74	4.47	34	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

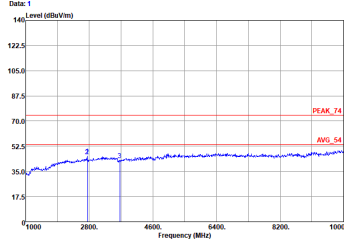
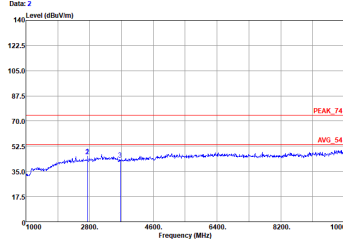


Appendix C. Radiated Spurious Emission Plots

FSK 50Kbps FHSS 50Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																											
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2MHz																																																																																																											
	Horizontal	Vertical																																																																																																										
Peak	Date: 1 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2706.68</td><td>46.00</td><td>-28.00</td><td>74.00</td><td>62.93</td><td>32.30</td><td>8.61</td><td>57.84</td><td>100</td><td>326 Peak</td></tr><tr><td>2</td><td>2706.68</td><td>45.68</td><td>-8.40</td><td>54.00</td><td>62.53</td><td>32.30</td><td>8.61</td><td>57.84</td><td>100</td><td>326 Average</td></tr><tr><td>3</td><td>3608.80</td><td>42.95</td><td>-31.05</td><td>74.00</td><td>58.38</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2706.68	46.00	-28.00	74.00	62.93	32.30	8.61	57.84	100	326 Peak	2	2706.68	45.68	-8.40	54.00	62.53	32.30	8.61	57.84	100	326 Average	3	3608.80	42.95	-31.05	74.00	58.38	32.90	9.67	58.00	---	---	Peak	Date: 2 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2706.68</td><td>46.53</td><td>-27.47</td><td>74.00</td><td>63.46</td><td>32.30</td><td>8.61</td><td>57.84</td><td>119</td><td>244 Peak</td></tr><tr><td>2</td><td>2706.68</td><td>46.13</td><td>-7.87</td><td>54.00</td><td>63.06</td><td>32.30</td><td>8.61</td><td>57.84</td><td>119</td><td>244 Average</td></tr><tr><td>3</td><td>3608.80</td><td>42.80</td><td>-31.20</td><td>74.00</td><td>58.23</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2706.68	46.53	-27.47	74.00	63.46	32.30	8.61	57.84	119	244 Peak	2	2706.68	46.13	-7.87	54.00	63.06	32.30	8.61	57.84	119	244 Average	3	3608.80	42.80	-31.20	74.00	58.23	32.90	9.67	58.00	---	---	Peak
	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																			
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																			
1	2706.68	46.00	-28.00	74.00	62.93	32.30	8.61	57.84	100	326 Peak																																																																																																		
2	2706.68	45.68	-8.40	54.00	62.53	32.30	8.61	57.84	100	326 Average																																																																																																		
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MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																																																																																																			
1	2706.68	46.53	-27.47	74.00	63.46	32.30	8.61	57.84	119	244 Peak																																																																																																		
2	2706.68	46.13	-7.87	54.00	63.06	32.30	8.61	57.84	119	244 Average																																																																																																		
3	3608.80	42.80	-31.20	74.00	58.23	32.90	9.67	58.00	---	---	Peak																																																																																																	



LoRa	Harmonic @ 3m																																																																																																									
ANT	FSK 50Kbps FHSS 50Kbps CH65 915MHz																																																																																																									
	Horizontal					Vertical																																																																																																				
Peak	Date: 1 <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th></tr><tr><td>1</td><td>2745.00</td><td>45.91</td><td>-28.89</td><td>74.00</td><td>62.89</td><td>32.25</td><td>8.62 57.85 100 211 Peak</td></tr><tr><td>2</td><td>2745.00</td><td>45.51</td><td>-8.49</td><td>54.00</td><td>62.49</td><td>32.25</td><td>8.62 57.85 100 211 Average</td></tr><tr><td>3</td><td>3660.00</td><td>42.83</td><td>-31.17</td><td>74.00</td><td>58.19</td><td>33.00</td><td>9.64 58.00 --- --- Peak</td></tr></table>						Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Freq	Level	Line	Level	Factor	Loss	Factor		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	1	2745.00	45.91	-28.89	74.00	62.89	32.25	8.62 57.85 100 211 Peak	2	2745.00	45.51	-8.49	54.00	62.49	32.25	8.62 57.85 100 211 Average	3	3660.00	42.83	-31.17	74.00	58.19	33.00	9.64 58.00 --- --- Peak	Date: 2 <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th></tr><tr><td>1</td><td>2745.00</td><td>46.88</td><td>-27.92</td><td>74.00</td><td>63.06</td><td>32.25</td><td>8.62 57.85 125 142 Peak</td></tr><tr><td>2</td><td>2745.00</td><td>45.68</td><td>-8.32</td><td>54.00</td><td>62.66</td><td>32.25</td><td>8.62 57.85 125 142 Average</td></tr><tr><td>3</td><td>3660.00</td><td>43.19</td><td>-30.81</td><td>74.00</td><td>58.55</td><td>33.00</td><td>9.64 58.00 --- --- Peak</td></tr></table>						Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Freq	Level	Line	Level	Factor	Loss	Factor		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	1	2745.00	46.88	-27.92	74.00	63.06	32.25	8.62 57.85 125 142 Peak	2	2745.00	45.68	-8.32	54.00	62.66	32.25	8.62 57.85 125 142 Average	3	3660.00	43.19	-30.81	74.00	58.55	33.00	9.64 58.00 --- --- Peak
		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																		
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		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB																																																																																																		
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3	3660.00	42.83	-31.17	74.00	58.19	33.00	9.64 58.00 --- --- Peak																																																																																																			
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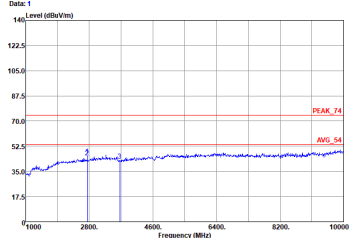
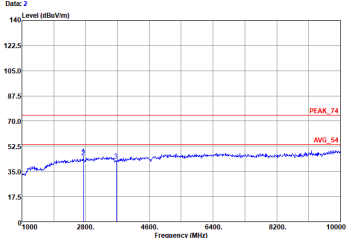
LoRa	Harmonic @ 3m										
ANT	FSK 50Kbps FHSS 50Kbps CH129 927.8MHz										



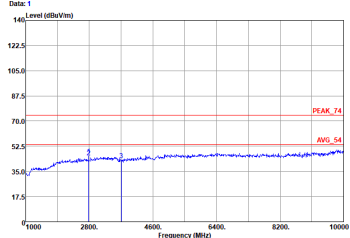
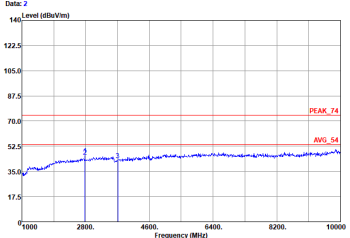
FSK 150Kbps FHSS 150Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																									
ANT	FSK 150Kbps FHSS 150Kbps CH01 902.4MHz																																																																																																									
	Horizontal					Vertical																																																																																																				
Peak	Date: 1 Level (dBuV/m) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 2000 4000 6000 8000 10000 PEAK_74 AVG_54 3 2 1 Frequency (MHz)					Date: 2 Level (dBuV/m) 140 122.5 105.0 87.5 70.0 52.5 35.0 17.5 0 2000 4000 6000 8000 10000 PEAK_74 AVG_54 3 2 1 Frequency (MHz)																																																																																																				
	<table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2787.28</td><td>46.97</td><td>-27.83</td><td>74.00</td><td>63.92</td><td>32.28</td><td>8.61</td><td>57.84</td><td>185 Peak</td></tr><tr><td>2</td><td>2787.28</td><td>45.76</td><td>-28.24</td><td>54.00</td><td>62.71</td><td>32.28</td><td>8.61</td><td>57.84</td><td>185 Average</td></tr><tr><td>3</td><td>3689.68</td><td>44.48</td><td>-29.52</td><td>74.00</td><td>59.91</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td></tr></table>					Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg	1	2787.28	46.97	-27.83	74.00	63.92	32.28	8.61	57.84	185 Peak	2	2787.28	45.76	-28.24	54.00	62.71	32.28	8.61	57.84	185 Average	3	3689.68	44.48	-29.52	74.00	59.91	32.90	9.67	58.00	---	<table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2787.28</td><td>45.83</td><td>-28.17</td><td>74.00</td><td>62.78</td><td>32.28</td><td>8.61</td><td>57.84</td><td>185 Peak</td></tr><tr><td>2</td><td>2787.28</td><td>44.62</td><td>-9.38</td><td>54.00</td><td>61.57</td><td>32.28</td><td>8.61</td><td>57.84</td><td>185 Average</td></tr><tr><td>3</td><td>3689.68</td><td>44.07</td><td>-29.93</td><td>74.00</td><td>59.58</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td></tr></table>					Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg	1	2787.28	45.83	-28.17	74.00	62.78	32.28	8.61	57.84	185 Peak	2	2787.28	44.62	-9.38	54.00	61.57	32.28	8.61	57.84	185 Average	3	3689.68	44.07	-29.93	74.00	59.58	32.90	9.67	58.00	---
	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																	
1	2787.28	46.97	-27.83	74.00	63.92	32.28	8.61	57.84	185 Peak																																																																																																	
2	2787.28	45.76	-28.24	54.00	62.71	32.28	8.61	57.84	185 Average																																																																																																	
3	3689.68	44.48	-29.52	74.00	59.91	32.90	9.67	58.00	---																																																																																																	
Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																		
1	2787.28	45.83	-28.17	74.00	62.78	32.28	8.61	57.84	185 Peak																																																																																																	
2	2787.28	44.62	-9.38	54.00	61.57	32.28	8.61	57.84	185 Average																																																																																																	
3	3689.68	44.07	-29.93	74.00	59.58	32.90	9.67	58.00	---																																																																																																	



LoRa	Harmonic @ 3m																																																																																																									
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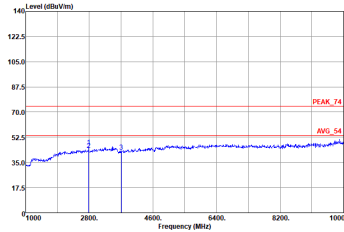
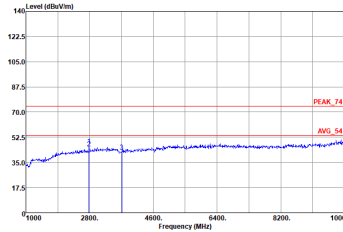
FSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																			
ANT	FSK 250Kbps FHSS 250Kbps CH01 902.5MHz																																																																																																																			
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Peak	Date: 1 <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2787.58</td><td>46.84</td><td>-27.96</td><td>74.00</td><td>62.99</td><td>32.28</td><td>8.61</td><td>57.84</td><td>189</td><td>32 Peak</td></tr><tr><td>2</td><td>2787.58</td><td>43.94</td><td>-18.06</td><td>54.00</td><td>68.89</td><td>32.28</td><td>8.61</td><td>57.84</td><td>189</td><td>32 Average</td></tr><tr><td>3</td><td>3618.00</td><td>43.43</td><td>-30.57</td><td>74.00</td><td>58.84</td><td>32.93</td><td>9.66</td><td>58.00</td><td>---</td><td>--- Peak</td></tr></tbody></table>					Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg		1	2787.58	46.84	-27.96	74.00	62.99	32.28	8.61	57.84	189	32 Peak	2	2787.58	43.94	-18.06	54.00	68.89	32.28	8.61	57.84	189	32 Average	3	3618.00	43.43	-30.57	74.00	58.84	32.93	9.66	58.00	---	--- Peak	Date: 2 <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2787.58</td><td>46.47</td><td>-27.53</td><td>74.00</td><td>63.42</td><td>32.28</td><td>8.61</td><td>57.84</td><td>144</td><td>271 Peak</td></tr><tr><td>2</td><td>2787.58</td><td>44.37</td><td>-9.63</td><td>54.00</td><td>61.32</td><td>32.28</td><td>8.61</td><td>57.84</td><td>144</td><td>271 Average</td></tr><tr><td>3</td><td>3618.00</td><td>43.51</td><td>-30.49</td><td>74.00</td><td>58.92</td><td>32.93</td><td>9.66</td><td>58.00</td><td>---</td><td>--- Peak</td></tr></tbody></table>					Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg		1	2787.58	46.47	-27.53	74.00	63.42	32.28	8.61	57.84	144	271 Peak	2	2787.58	44.37	-9.63	54.00	61.32	32.28	8.61	57.84	144	271 Average	3	3618.00	43.51	-30.49	74.00	58.92	32.93	9.66	58.00	---	--- Peak
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Peak	Date: 1  <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss 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>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2782.58</td><td>45.83</td><td>-28.17</td><td>74.00</td><td>62.84</td><td>32.22</td><td>8.63</td><td>57.86</td><td>100</td><td>21 Peak</td></tr><tr><td>2</td><td>2782.58</td><td>43.73</td><td>-18.27</td><td>54.00</td><td>60.74</td><td>32.22</td><td>8.63</td><td>57.86</td><td>100</td><td>21 Average</td></tr><tr><td>3</td><td>3710.00</td><td>42.54</td><td>-31.46</td><td>74.00</td><td>57.83</td><td>33.10</td><td>9.61</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>											Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	2782.58	45.83	-28.17	74.00	62.84	32.22	8.63	57.86	100	21 Peak	2	2782.58	43.73	-18.27	54.00	60.74	32.22	8.63	57.86	100	21 Average	3	3710.00	42.54	-31.46	74.00	57.83	33.10	9.61	58.00	---	---	Peak	Date: 2  <table><tr><th></th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss 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>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2782.58</td><td>46.77</td><td>-27.23</td><td>74.00</td><td>63.78</td><td>32.22</td><td>8.63</td><td>57.86</td><td>105</td><td>140 Peak</td></tr><tr><td>2</td><td>2782.58</td><td>44.67</td><td>-9.33</td><td>54.00</td><td>61.68</td><td>32.22</td><td>8.63</td><td>57.86</td><td>105</td><td>140 Average</td></tr><tr><td>3</td><td>3710.00</td><td>42.66</td><td>-31.34</td><td>74.00</td><td>57.95</td><td>33.10</td><td>9.61</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	2782.58	46.77	-27.23	74.00	63.78	32.22	8.63	57.86	105	140 Peak	2	2782.58	44.67	-9.33	54.00	61.68	32.22	8.63	57.86	105	140 Average	3	3710.00	42.66	-31.34	74.00	57.95	33.10	9.61	58.00	---	---	Peak
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<30M-1G>

FSK 50Kbps FHSS 50Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																																							
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz																																																																																																																							
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LoRa	LF @ 3m																																																																																																	
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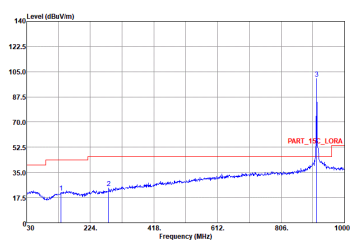
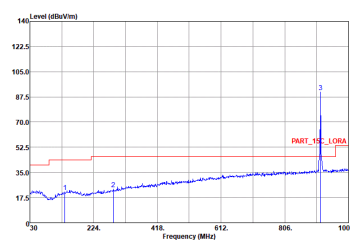
LoRa	LF @ 3m																																																																																					
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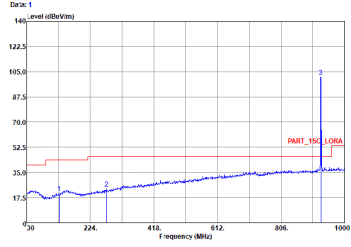
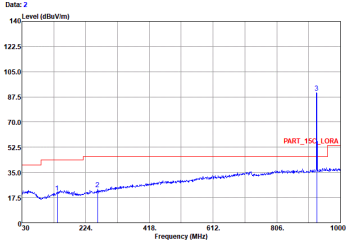
FSK 150Kbps FHSS 150Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																															
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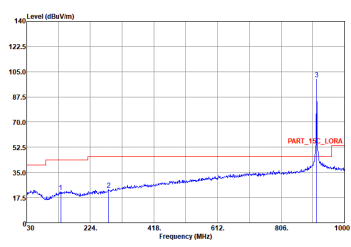
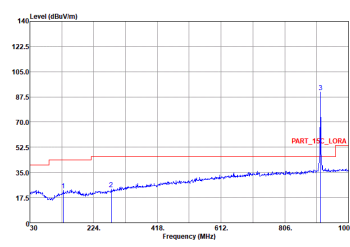
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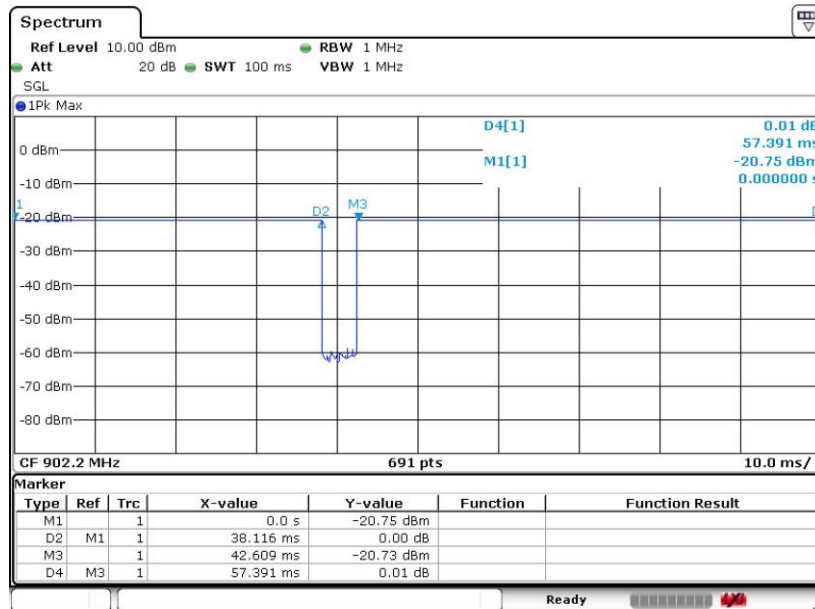
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Appendix D. Duty Cycle Plots

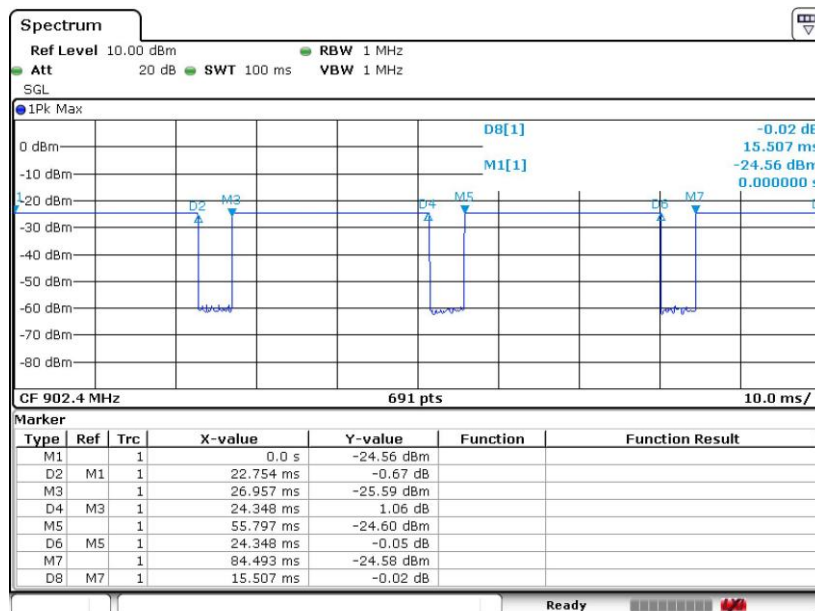
FSK(FHSS)50kbps on time Plot



Note:

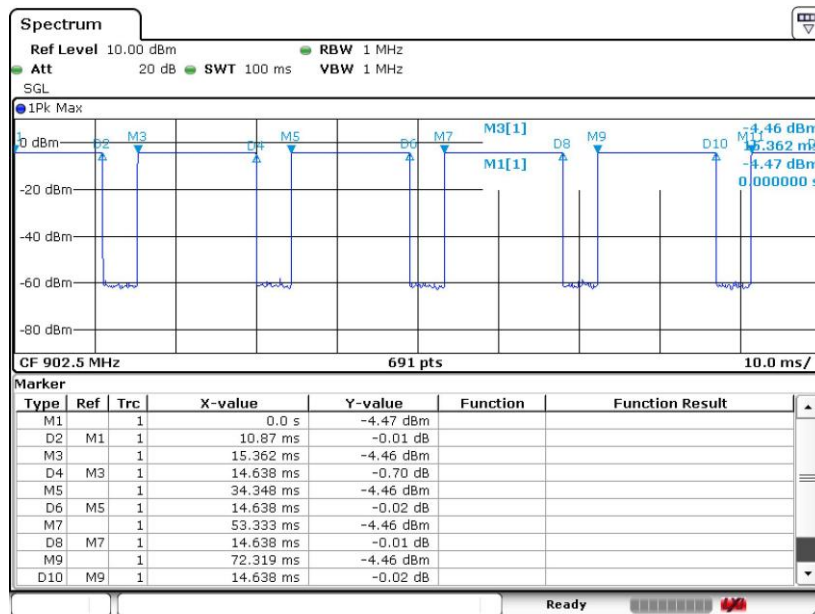
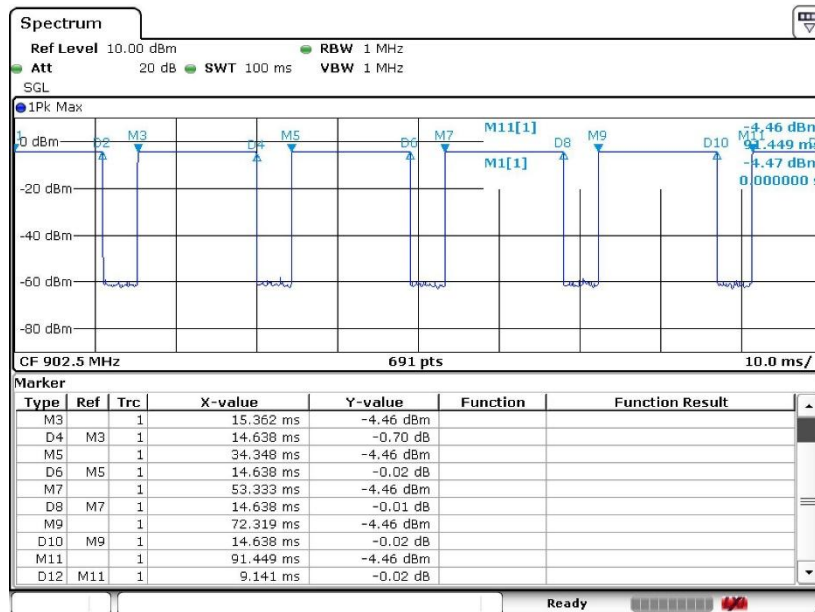
1. Duty cycle = on time/100 milliseconds = 95.51 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -0.40 \text{ Db}$

FSK(FHSS)150kbps on time Plot



Note:

1. Duty cycle = on time/100 milliseconds = 86.96 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -1.21 \text{ dB}$

FSK(FHSS)250kbps on time – Plot 1

FSK(FHSS)250kbps on time – Plot 2

Note:

1. Duty cycle = on time/100 milliseconds = 78.563 %
2. Duty cycle correction factor = 20*log(Duty cycle) = -2.10 dB