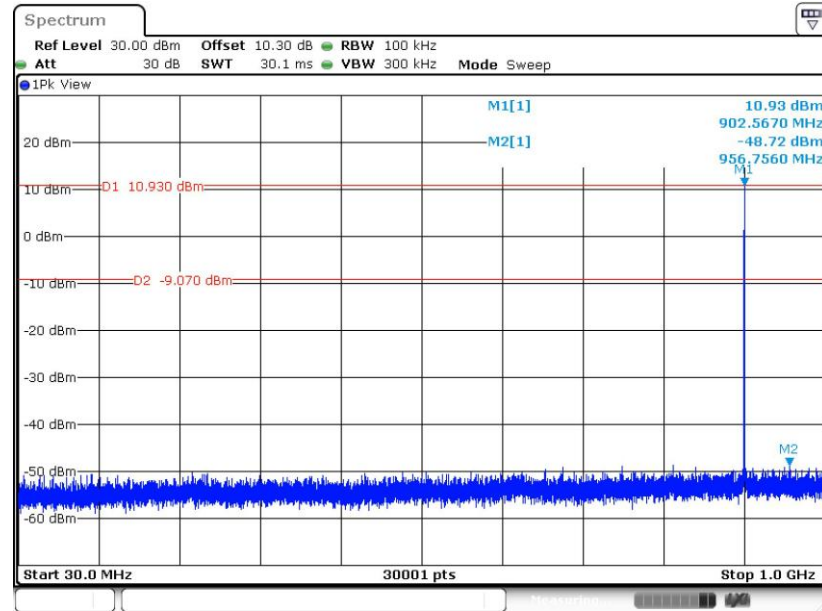




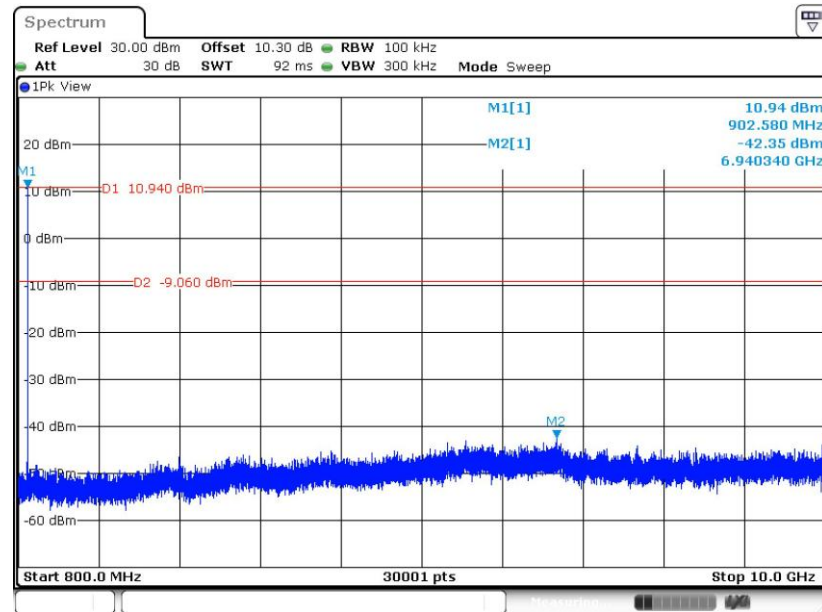
<Data Rate 250kbps>

Low CH CSE Plot



Date: 7.NOV.2025 17:08:19

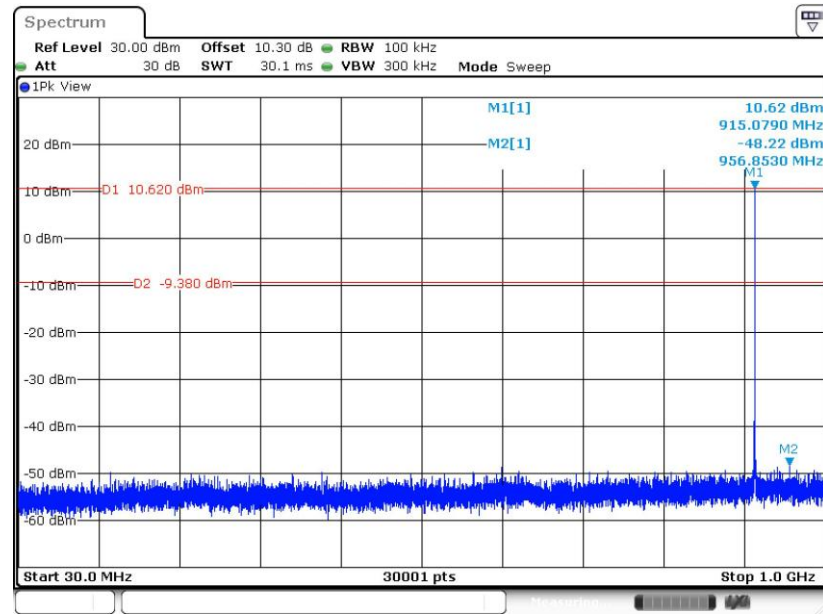
Low CH CSE Plot



Date: 7.NOV.2025 17:08:54

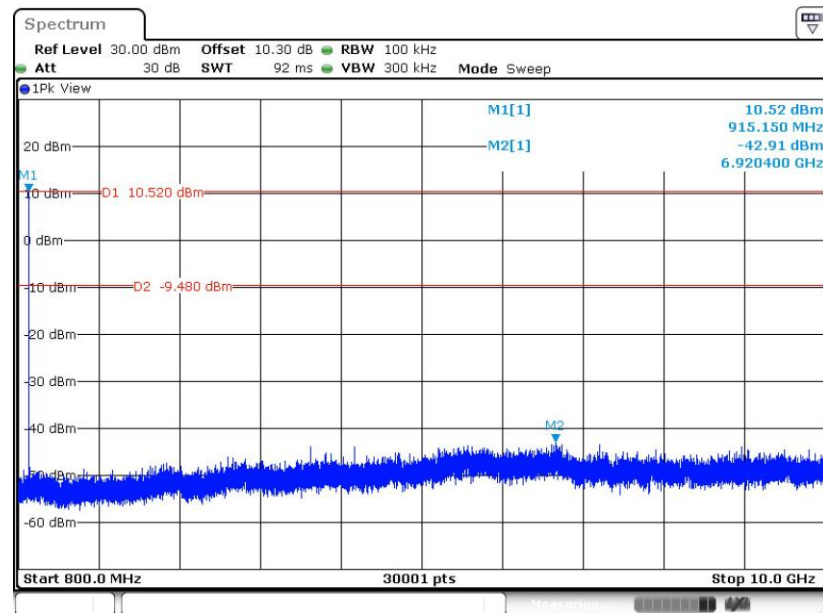


Mid CH CSE Plot



Date: 7.NOV.2025 17:13:01

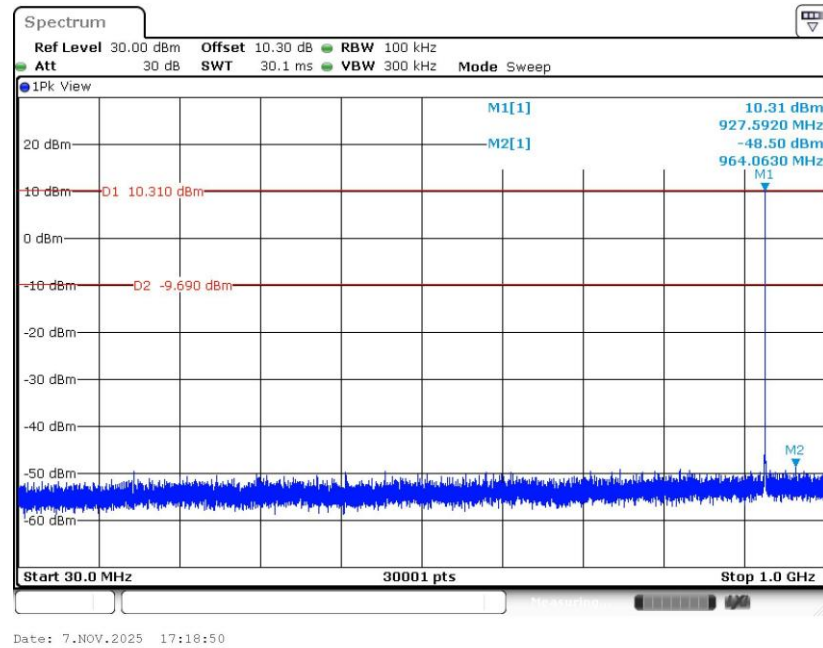
Mid CH CSE Plot



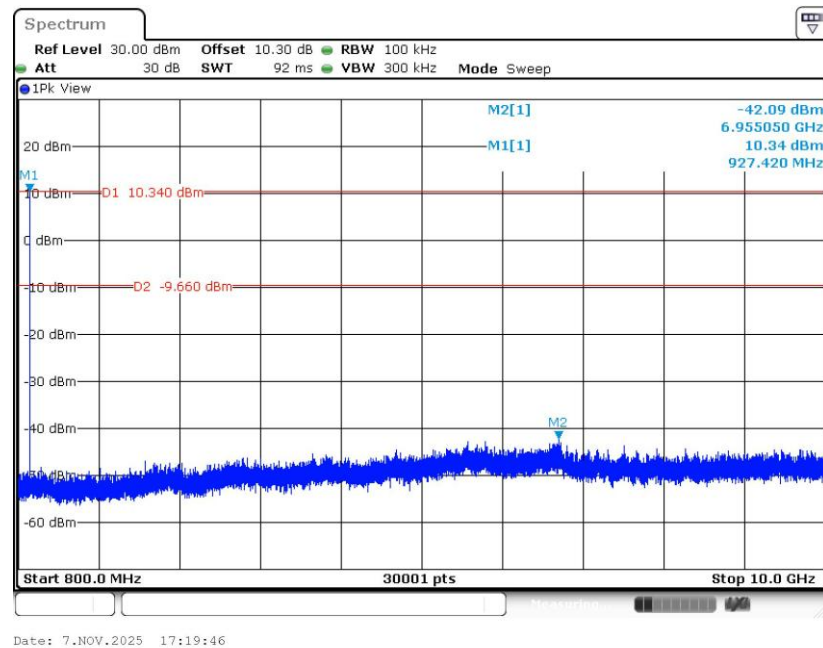
Date: 7.NOV.2025 17:13:38



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

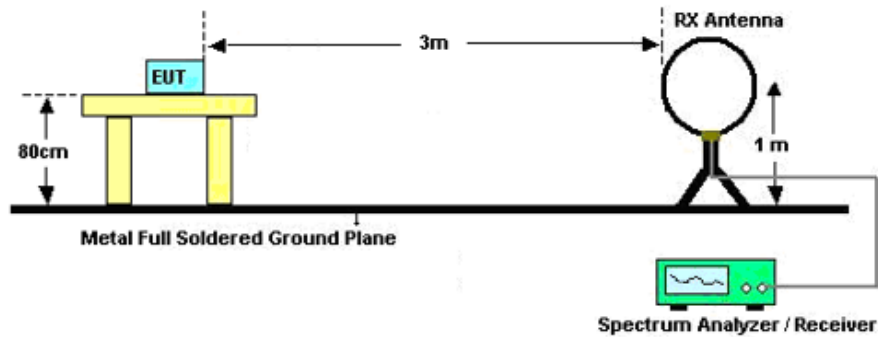
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

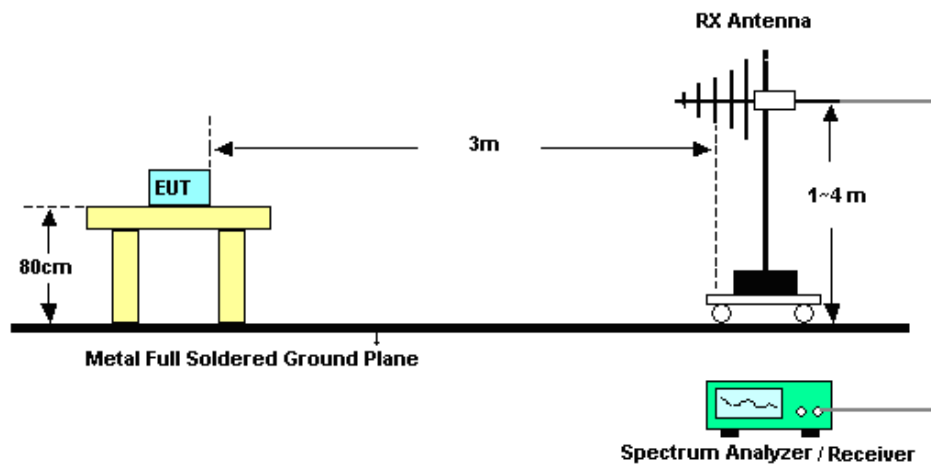
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 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

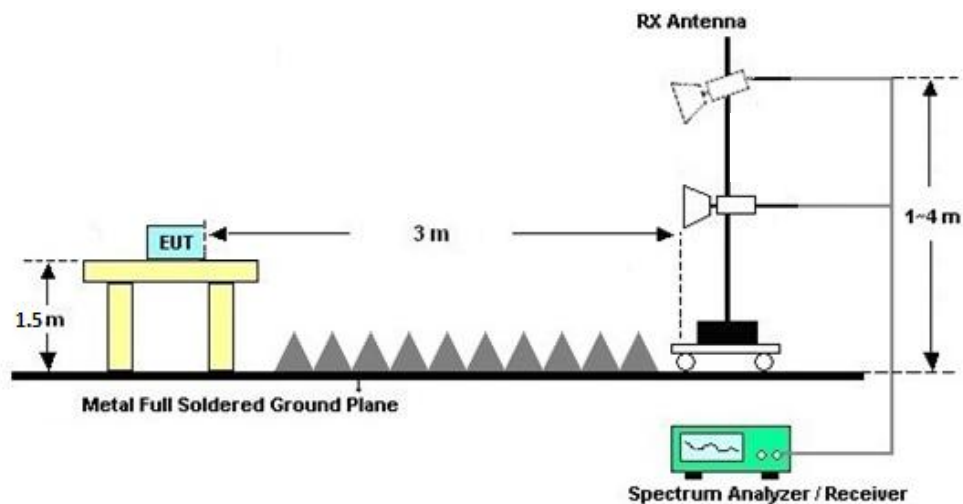
For radiated emissions below 30MHz



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. 07, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 07, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 07, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 07, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Nov. 04, 2025~Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Nov. 04, 2025~Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 04, 2025~Dec. 03, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Nov. 04, 2025~Dec. 03, 2025	Aug. 18, 2026	Radiation (03CH03-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2025	Nov. 04, 2025~Dec. 03, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 04, 2025~Dec. 03, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 04, 2025~Dec. 03, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Nov. 04, 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	Nov. 04, 2025~Dec. 03, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Nov. 04, 2025~Dec. 03, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Nov. 04, 2025~Dec. 03, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 04, 2025~Dec. 03, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 04, 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
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Conducted Test Results

FSK-FHSS-50Kbps

Test Engineer:	Sam Zheng	Temperature:	20~26	°C
Test Date:	2025/11/7	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	0.103	0.200	0.1042	Pass
FSK	50Kbps	1	65	915	0.108	0.500	0.103	0.200	0.1083	Pass
FSK	50Kbps	1	129	927.8	0.104	0.500	0.102	0.200	0.1045	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	11.96	14.00	30.00	1.80	13.76	36	Pass
	915	1	11.68	14.00	30.00	1.80	13.48	36	Pass
	927.8	1	11.35	14.00	30.00	1.80	13.15	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	0.174	0.500	0.157	0.401	0.1735	Pass
FSK	150Kbps	1	915.2	0.174	0.500	0.159	0.401	0.1744	Pass
FSK	150Kbps	1	927.6	0.171	0.500	0.154	0.401	0.1708	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	369.44	0.369	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	11.96	14.00	30.00	1.80	13.76	36	Pass
	915.2	1	11.63	14.00	30.00	1.80	13.43	36	Pass
	927.6	1	11.33	14.00	30.00	1.80	13.13	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	0.253	0.499	0.2631	Pass
FSK	250Kbps	1	915	0.269	0.500	0.255	0.499	0.2692	Pass
FSK	250Kbps	1	927.5	0.259	0.500	0.252	0.499	0.2590	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	375.68	0.376	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	11.98	14.00	30.00	1.80	13.78	36	Pass
	915	1	11.62	14.00	30.00	1.80	13.42	36	Pass
	927.5	1	11.35	14.00	30.00	1.80	13.15	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		1804.4	44.63	-42.55	87.18	65.26	30.63	6.64	57.9	-	-	P	H
		2706.6	47.72	-26.28	74	64.65	32.3	8.61	57.84	100	324	P	H
		2706.6	47.32	-6.68	54	64.25	32.3	8.61	57.84	100	324	A	H
		3608.8	44.42	-29.58	74	59.85	32.9	9.67	58	-	-	P	H
		8119.8	49.74	-24.26	74	61.23	35.84	11.93	59.26	204	297	P	H
		8119.8	49.34	-4.66	54	60.83	35.84	11.93	59.26	204	297	P	H
		1804.4	44.74	-33.31	78.05	65.37	30.63	6.64	57.9	-	-	P	V
		2706.6	46.39	-27.61	74	63.32	32.3	8.61	57.84	211	254	P	V
		2706.6	45.99	-8.01	54	62.92	32.3	8.61	57.84	211	254	A	V
		3608.8	42.9	-31.1	74	58.33	32.9	9.67	58	-	-	P	V
		8119.8	48.86	-25.14	74	60.35	35.84	11.93	59.26	135	210	P	V
		8119.8	48.46	-5.54	54	59.95	35.84	11.93	59.26	135	210	P	V
915MHz		1830	44.69	-42.64	87.33	65.1	30.77	6.72	57.9	-	-	P	H
		2745	47.26	-26.74	74	64.24	32.25	8.62	57.85	132	124	P	H
		2745	46.86	-7.14	54	63.84	32.25	8.62	57.85	132	124	A	H
		3660	42.65	-31.35	74	58.01	33	9.64	58	-	-	P	H
		8235	49.77	-24.23	74	61.05	35.8	12.03	59.11	124	260	P	H
		8235	49.37	-4.63	54	60.65	35.8	12.03	59.11	124	260	P	H
		1830	45.38	-32.59	77.97	65.79	30.77	6.72	57.9	-	-	P	V
		2745	46.28	-27.72	74	63.26	32.25	8.62	57.85	232	45	P	V
		2745	45.89	-8.11	54	62.87	32.25	8.62	57.85	232	45	A	V
		3660	42.2	-31.8	74	57.56	33	9.64	58	-	-	P	V
		8235	49.04	-24.96	74	60.32	35.8	12.03	59.11	124	256	P	V
		8235	48.64	-5.36	54	59.92	35.8	12.03	59.11	124	256	P	V
927.8MHz		1855.6	45.19	-43.82	89.01	65.18	31.03	6.88	57.9	-	-	P	H
		2783.4	47.64	-26.36	74	64.65	32.22	8.63	57.86	132	124	P	H
		2783.4	47.24	-6.76	54	64.25	32.22	8.63	57.86	132	124	A	H
		3711.2	42	-32	74	57.29	33.1	9.61	58	-	-	P	H
		8350.2	50.14	-23.86	74	61.24	35.8	12.07	58.97	132	54	P	H



		8350.2	49.74	-4.26	54	60.84	35.8	12.07	58.97	132	54	P	H
		1855.6	42.96	-35.97	78.93	62.95	31.03	6.88	57.9	-	-	P	V
		2783.4	46.25	-27.75	74	63.26	32.22	8.63	57.86	135	45	P	V
		2783.4	45.85	-8.15	54	62.86	32.22	8.63	57.86	135	45	A	V
		3711.2	42.05	-31.95	74	57.34	33.1	9.61	58	-	-	P	V
		8350.2	49.14	-24.86	74	60.24	35.8	12.07	58.97	245	233	P	V
		8350.2	48.74	-5.26	54	59.84	35.8	12.07	58.97	245	233	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		1804.8	44.8	-42.32	87.12	65.43	30.63	6.64	57.9	-	-	P	H
		2707.2	47.05	-26.95	74	64	32.28	8.61	57.84	297	184	P	H
		2707.2	45.79	-8.21	54	62.74	32.28	8.61	57.84	297	184	A	H
		3609.6	43.02	-30.98	74	58.45	32.9	9.67	58	-	-	P	H
		8121.6	49.59	-24.41	74	61.08	35.84	11.93	59.26	152	190	P	H
		8121.6	48.33	-5.67	54	59.82	35.84	11.93	59.26	152	190	P	H
		1804.8	43.65	-34.06	77.71	64.28	30.63	6.64	57.9	-	-	P	V
		2707.2	46.31	-27.69	74	63.26	32.28	8.61	57.84	182	49	P	V
		2707.2	45.05	-8.95	54	62	32.28	8.61	57.84	182	49	A	V
		3609.6	42.72	-31.28	74	58.15	32.9	9.67	58	-	-	P	V
		8121.6	48.75	-25.25	74	60.24	35.84	11.93	59.26	100	159	P	V
		8121.6	47.49	-6.51	54	58.98	35.84	11.93	59.26	100	159	P	V
915.2MHz		1830.4	44.28	-43.12	87.4	64.69	30.77	6.72	57.9	-	-	P	H
		2745.6	47.25	-26.75	74	64.23	32.25	8.62	57.85	124	210	P	H
		2745.6	45.99	-8.01	54	62.97	32.25	8.62	57.85	124	210	A	H
		3660.8	41.67	-32.33	74	57.03	33	9.64	58	-	-	P	H
		8236.8	49.71	-24.29	74	60.99	35.8	12.03	59.11	100	338	P	H
		8236.8	48.45	-5.55	54	59.73	35.8	12.03	59.11	100	338	P	H
		1830.4	42.99	-34.63	77.62	63.4	30.77	6.72	57.9	-	-	P	V
		2745.6	46.27	-27.73	74	63.25	32.25	8.62	57.85	135	240	P	V



		2745.6	45.01	-8.99	54	61.99	32.25	8.62	57.85	135	240	A	V
		3660.8	41.97	-32.03	74	57.33	33	9.64	58	-	-	P	V
		8236.8	48.71	-25.29	74	59.99	35.8	12.03	59.11	132	41	P	V
		8236.8	47.45	-6.55	54	58.73	35.8	12.03	59.11	132	41	P	V
927.6MHz		1855.2	45.69	-43.1	88.79	65.68	31.03	6.88	57.9	-	-	P	H
		2782.8	47.31	-26.69	74	64.32	32.22	8.63	57.86	124	235	P	H
		2782.8	46.05	-7.95	54	63.06	32.22	8.63	57.86	124	235	A	H
		3710.4	42.38	-31.62	74	57.67	33.1	9.61	58	-	-	P	H
		8348.4	49.93	-24.07	74	61.03	35.8	12.07	58.97	124	221	P	H
		8348.4	48.67	-5.33	54	59.77	35.8	12.07	58.97	124	221	P	H
		1855.2	42.91	-35.85	78.76	62.9	31.03	6.88	57.9	-	-	P	V
		2782.8	46.22	-27.78	74	63.23	32.22	8.63	57.86	132	54	P	V
		2782.8	44.96	-9.04	54	61.97	32.22	8.63	57.86	132	54	A	V
		3710.4	42.61	-31.39	74	57.9	33.1	9.61	58	-	-	P	V
		8348.4	48.56	-25.44	74	59.66	35.8	12.07	58.97	125	324	P	V
		8348.4	47.3	-6.7	54	58.4	35.8	12.07	58.97	125	324	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 (MHz)	Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Read (dBμV)	Antenna (dB/m)	Cable (dB)	Preamp (dB)	Ant (cm)	Table (deg)	Peak (P/A)	Pol. (H/V)
902.5MHz		1805	45.46	-41.06	86.52	66.09	30.63	6.64	57.9	-	-	P	H
		2707.5	46.03	-27.97	74	62.98	32.28	8.61	57.84	307	125	P	H
		2707.5	43.8	-10.2	54	60.75	32.28	8.61	57.84	307	125	A	H
		3610	43.03	-30.97	74	58.44	32.93	9.66	58	-	-	P	H
		8122.5	50.38	-23.62	74	61.87	35.84	11.93	59.26	100	300	P	H
		8122.5	48.15	-5.85	54	59.64	35.84	11.93	59.26	100	300	P	H
		1805	44.71	-32.71	77.42	65.34	30.63	6.64	57.9	-	-	P	V
		2707.5	45.5	-28.5	74	62.45	32.28	8.61	57.84	124	152	P	V
		2707.5	43.27	-10.73	54	60.22	32.28	8.61	57.84	124	152	A	V
		3610	42.94	-31.06	74	58.35	32.93	9.66	58	-	-	P	V
		8122.5	49.13	-24.87	74	60.62	35.84	11.93	59.26	100	138	P	V



		8122.5	46.9	-7.1	54	58.39	35.84	11.93	59.26	100	138	P	V
915.0MHz		1830	44.44	-42	86.44	64.85	30.77	6.72	57.9	-	-	P	H
		2745	46.51	-27.49	74	63.49	32.25	8.62	57.85	156	255	P	H
		2745	44.28	-9.72	54	61.26	32.25	8.62	57.85	156	255	A	H
		3660	42.78	-31.22	74	58.14	33	9.64	58	-	-	P	H
		8235	48.88	-25.12	74	60.16	35.8	12.03	59.11	125	188	P	H
		8235	46.65	-7.35	54	57.93	35.8	12.03	59.11	125	188	P	H
		1830	45.13	-32.75	77.88	65.54	30.77	6.72	57.9	-	-	P	V
		2745	45.51	-28.49	74	62.49	32.25	8.62	57.85	177	85	P	V
		2745	43.28	-10.72	54	60.26	32.25	8.62	57.85	177	85	A	V
		3660	42.49	-31.51	74	57.85	33	9.64	58	-	-	P	V
		8235	48.35	-25.65	74	59.63	35.8	12.03	59.11	102	16	P	V
		8235	46.12	-7.88	54	57.4	35.8	12.03	59.11	102	16	P	V
927.5MHz		1855	46.47	-42.41	88.88	66.46	31.03	6.88	57.9	-	-	P	H
		2782.5	46.44	-27.56	74	63.45	32.22	8.63	57.86	163	254	P	H
		2782.5	44.21	-9.79	54	61.22	32.22	8.63	57.86	163	254	A	H
		3710	43.45	-30.55	74	58.74	33.1	9.61	58	-	-	P	H
		8347.5	49.01	-24.99	74	60.11	35.8	12.07	58.97	124	17	P	H
		8347.5	46.78	-7.22	54	57.88	35.8	12.07	58.97	124	17	P	H
		1855	43.91	-35.07	78.98	63.9	31.03	6.88	57.9	-	-	P	V
		2782.5	45.87	-28.13	74	62.88	32.22	8.63	57.86	144	244	P	V
		2782.5	43.64	-10.36	54	60.65	32.22	8.63	57.86	144	244	A	V
		3710	41.8	-32.2	74	57.09	33.1	9.61	58	-	-	P	V
		8347.5	48.69	-25.31	74	59.79	35.8	12.07	58.97	147	185	P	V
		8347.5	46.46	-7.54	54	57.56	35.8	12.07	58.97	147	185	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<30M-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		134.76	21.63	-21.87	43.5	35.59	16.55	1.19	31.7	-	-	P	H
		255.04	24.46	-21.54	46	35.79	18.6	1.66	31.59	-	-	P	H
		902.2	107.18	----	----	105.89	29.13	3.16	31	-	-	P	H
		914.64	45	-42.18	87.18	43.3	29.49	3.18	30.97	-	-	P	H
		126.03	21.41	-22.09	43.5	35.57	16.39	1.15	31.7	-	-	P	V
		280.26	24.32	-21.68	46	35.19	18.93	1.74	31.54	-	-	P	V
		902.2	98.05	----	----	96.76	29.13	3.16	31	-	-	P	V
915MHz		131.85	21.62	-21.88	43.5	36.51	17.79	2.22	34.9	-	-	P	H
		280.26	22.9	-23.1	46	35.77	18.74	3.13	34.74	-	-	P	H
		915	107.33	----	----	107.54	29.34	4.45	34	-	-	P	H
		137.67	21.6	-21.9	43.5	36.11	18.13	2.26	34.9	-	-	P	V
		285.11	22.64	-23.36	46	35.32	18.9	3.15	34.73	-	-	P	V
		915	97.97	----	----	98.18	29.34	4.45	34	-	-	P	V
927.8MHz		130.88	21.98	-21.52	43.5	36.03	16.48	1.17	31.7	-	-	P	H
		280.26	24.45	-21.55	46	35.32	18.93	1.74	31.54	-	-	P	H
		927.8	109.01	----	----	106.87	29.88	3.2	30.94	-	-	P	H
		939.86	46.36	-42.65	89.01	43.83	30.23	3.22	30.92	-	-	P	H
		136.7	21.46	-22.04	43.5	35.38	16.58	1.2	31.7	-	-	P	V
		282.2	24.1	-21.9	46	34.93	18.96	1.75	31.54	-	-	P	V
		927.8	98.93	----	----	96.79	29.88	3.2	30.94	-	-	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.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.4MHz		133.79	21.66	-21.84	43.5	35.65	16.53	1.18	31.7	-	-	P	H
		250.19	24.37	-21.63	46	35.79	18.53	1.65	31.6	-	-	P	H
		902.4	107.12	----	----	105.82	29.14	3.16	31	-	-	P	H
		914.64	43.98	-43.14	87.12	42.28	29.49	3.18	30.97	-	-	P	H
		129.91	21.3	-22.2	43.5	35.38	16.46	1.16	31.7	-	-	P	V
		274.44	24.76	-21.24	46	35.74	18.85	1.72	31.55	-	-	P	V
		902.4	97.71	----	----	96.41	29.14	3.16	31	-	-	P	V
915.2MHz		133.79	20.67	-22.83	43.5	35.44	17.9	2.23	34.9	-	-	P	H
		275.41	23	-23	46	36.05	18.59	3.11	34.75	-	-	P	H
		915.2	107.4	----	----	107.61	29.34	4.45	34	-	-	P	H
		134.76	21.58	-21.92	43.5	36.28	17.96	2.24	34.9	-	-	P	V
		272.5	22.93	-23.07	46	36.09	18.49	3.1	34.75	-	-	P	V
		915.2	97.62	----	----	97.83	29.34	4.45	34	-	-	P	V
927.6MHz		137.67	21.06	-22.44	43.5	34.96	16.6	1.2	31.7	-	-	P	H
		271.53	24.26	-21.74	46	35.3	18.81	1.71	31.56	-	-	P	H
		927.6	108.79	----	----	106.66	29.87	3.2	30.94	-	-	P	H
		939.86	47.93	-40.86	88.79	45.4	30.23	3.22	30.92	-	-	P	H
		137.67	20.96	-22.54	43.5	34.86	16.6	1.2	31.7	-	-	P	V
		277.35	24.25	-21.75	46	35.18	18.89	1.73	31.55	-	-	P	V
		927.6	98.76	----	----	96.63	29.87	3.2	30.94	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



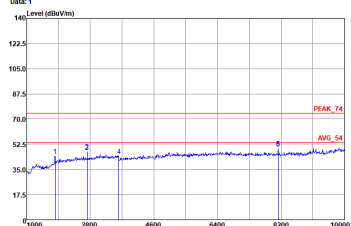
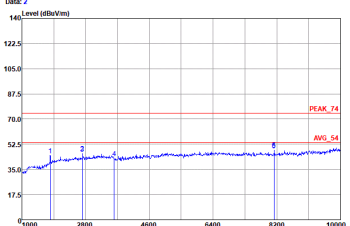
FSK 250K(LF @ 3m)

	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		137.67	20.76	-22.74	43.5	34.66	16.6	1.2	31.7	-	-	P	H
		278.32	24.7	-21.3	46	35.6	18.9	1.74	31.54	-	-	P	H
		902.5	106.52	----	----	105.22	29.14	3.16	31	-	-	P	H
		914.64	43.56	-42.96	86.52	41.86	29.49	3.18	30.97	-	-	P	H
		128.94	20.8	-22.7	43.5	34.89	16.45	1.16	31.7	-	-	P	V
		252.13	24.46	-21.54	46	35.84	18.56	1.66	31.6	-	-	P	V
		902.5	97.42	----	----	96.12	29.14	3.16	31	-	-	P	V
915MHz		137.67	21.4	-22.1	43.5	35.91	18.13	2.26	34.9	-	-	P	H
		284.14	23.76	-22.24	46	36.48	18.86	3.15	34.73	-	-	P	H
		915	106.44	----	----	106.65	29.34	4.45	34	-	-	P	H
		137.67	20.89	-22.61	43.5	35.4	18.13	2.26	34.9	-	-	P	V
		281.23	22.91	-23.09	46	35.74	18.77	3.14	34.74	-	-	P	V
		915	97.88	----	----	98.09	29.34	4.45	34	-	-	P	V
927.5MHz		124.09	21.03	-22.47	43.5	35.23	16.36	1.14	31.7	-	-	P	H
		285.11	24.36	-21.64	46	35.14	18.99	1.76	31.53	-	-	P	H
		927.5	108.88	----	----	106.75	29.87	3.2	30.94	-	-	P	H
		939.86	48.01	-40.87	88.88	45.48	30.23	3.22	30.92	-	-	P	H
		130.88	20.79	-22.71	43.5	34.84	16.48	1.17	31.7	-	-	P	V
		271.53	24.3	-21.7	46	35.34	18.81	1.71	31.56	-	-	P	V
		927.5	98.98	----	----	96.87	29.86	3.2	30.95	-	-	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

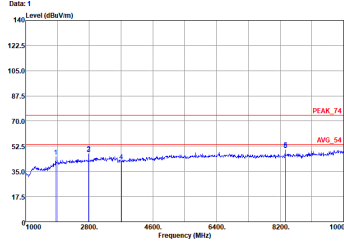
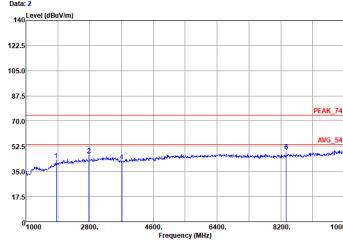
FSK 50Kbps FHSS 50Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																																																																													
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2 MHz																																																																																																																																																																													
	Horizontal	Vertical																																																																																																																																																																												
Peak	Date: 1 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</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>MHz</th><th>dBuV/m</th><th></th><th>Line</th><th>Level</th><th>Loss Factor</th><th></th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>1884.40</td><td>44.63</td><td>---</td><td>---</td><td>55.20</td><td>30.63</td><td>6.64</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2796.60</td><td>47.72</td><td>-26.28</td><td>74.00</td><td>64.65</td><td>32.30</td><td>8.61</td><td>57.86</td><td>100</td><td>326 Peak</td></tr><tr><td>3</td><td>2796.60</td><td>47.32</td><td>-6.68</td><td>54.00</td><td>64.25</td><td>32.30</td><td>8.61</td><td>57.86</td><td>100</td><td>326 Average</td></tr><tr><td>4</td><td>3608.80</td><td>42.42</td><td>-29.58</td><td>74.00</td><td>59.85</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>8119.80</td><td>49.74</td><td>-24.25</td><td>74.00</td><td>61.21</td><td>35.84</td><td>11.93</td><td>59.26</td><td>206</td><td>297 Peak</td></tr><tr><td>6</td><td>8119.80</td><td>49.34</td><td>-4.65</td><td>54.00</td><td>60.83</td><td>35.84</td><td>11.93</td><td>59.26</td><td>206</td><td>297 Average</td></tr></tbody></table>		Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m		Line	Level	Loss Factor				1	1884.40	44.63	---	---	55.20	30.63	6.64	57.90	---	Peak	2	2796.60	47.72	-26.28	74.00	64.65	32.30	8.61	57.86	100	326 Peak	3	2796.60	47.32	-6.68	54.00	64.25	32.30	8.61	57.86	100	326 Average	4	3608.80	42.42	-29.58	74.00	59.85	32.90	9.67	58.00	---	Peak	5	8119.80	49.74	-24.25	74.00	61.21	35.84	11.93	59.26	206	297 Peak	6	8119.80	49.34	-4.65	54.00	60.83	35.84	11.93	59.26	206	297 Average	Date: 2 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</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>MHz</th><th>dBuV/m</th><th></th><th>Line</th><th>Level</th><th>Loss Factor</th><th></th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>1884.40</td><td>44.74</td><td>---</td><td>---</td><td>65.37</td><td>30.63</td><td>6.64</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2796.60</td><td>46.39</td><td>-27.61</td><td>74.00</td><td>63.32</td><td>32.30</td><td>8.61</td><td>57.84</td><td>211</td><td>254 Peak</td></tr><tr><td>3</td><td>2796.60</td><td>45.99</td><td>-8.01</td><td>54.00</td><td>62.92</td><td>32.30</td><td>8.61</td><td>57.84</td><td>211</td><td>254 Average</td></tr><tr><td>4</td><td>3608.80</td><td>42.90</td><td>-31.10</td><td>74.00</td><td>58.33</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>8119.80</td><td>48.86</td><td>-25.14</td><td>74.00</td><td>60.35</td><td>35.84</td><td>11.93</td><td>59.26</td><td>135</td><td>210 Peak</td></tr><tr><td>6</td><td>8119.80</td><td>48.46</td><td>-5.54</td><td>54.00</td><td>59.95</td><td>35.84</td><td>11.93</td><td>59.26</td><td>135</td><td>210 Average</td></tr></tbody></table>		Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m		Line	Level	Loss Factor				1	1884.40	44.74	---	---	65.37	30.63	6.64	57.90	---	Peak	2	2796.60	46.39	-27.61	74.00	63.32	32.30	8.61	57.84	211	254 Peak	3	2796.60	45.99	-8.01	54.00	62.92	32.30	8.61	57.84	211	254 Average	4	3608.80	42.90	-31.10	74.00	58.33	32.90	9.67	58.00	---	Peak	5	8119.80	48.86	-25.14	74.00	60.35	35.84	11.93	59.26	135	210 Peak	6	8119.80	48.46	-5.54	54.00	59.95	35.84	11.93	59.26	135	210 Average
		Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																				
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3	2796.60	47.32	-6.68	54.00	64.25	32.30	8.61	57.86	100	326 Average																																																																																																																																																																				
4	3608.80	42.42	-29.58	74.00	59.85	32.90	9.67	58.00	---	Peak																																																																																																																																																																				
5	8119.80	49.74	-24.25	74.00	61.21	35.84	11.93	59.26	206	297 Peak																																																																																																																																																																				
6	8119.80	49.34	-4.65	54.00	60.83	35.84	11.93	59.26	206	297 Average																																																																																																																																																																				
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3	2796.60	45.99	-8.01	54.00	62.92	32.30	8.61	57.84	211	254 Average																																																																																																																																																																				
4	3608.80	42.90	-31.10	74.00	58.33	32.90	9.67	58.00	---	Peak																																																																																																																																																																				
5	8119.80	48.86	-25.14	74.00	60.35	35.84	11.93	59.26	135	210 Peak																																																																																																																																																																				
6	8119.80	48.46	-5.54	54.00	59.95	35.84	11.93	59.26	135	210 Average																																																																																																																																																																				



LoRa	Harmonic @ 3m																																																																																																																																																					
ANT	FSK 50Kbps FHSS 50Kbps CH65 915 MHz																																																																																																																																																					
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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>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></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>cm</th></tr><tr><td>1</td><td>1838.00</td><td>44.69</td><td>---</td><td>65.10</td><td>30.77</td><td>6.72</td><td>57.90</td></tr><tr><td>2</td><td>2745.00</td><td>47.26</td><td>-26.74</td><td>74.00</td><td>64.24</td><td>32.25</td><td>8.62</td></tr><tr><td>3</td><td>2745.00</td><td>46.86</td><td>-7.14</td><td>54.00</td><td>63.84</td><td>32.25</td><td>8.62</td></tr><tr><td>4</td><td>3668.00</td><td>42.65</td><td>-31.35</td><td>74.00</td><td>58.01</td><td>33.00</td><td>9.64</td></tr><tr><td>5</td><td>8235.00</td><td>49.77</td><td>-24.23</td><td>74.00</td><td>61.05</td><td>35.00</td><td>12.03</td></tr><tr><td>6</td><td>8235.00</td><td>49.37</td><td>-4.63</td><td>54.00</td><td>60.65</td><td>35.00</td><td>12.03</td></tr></table> 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>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th></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>cm</th></tr><tr><td>1</td><td>1838.00</td><td>45.38</td><td>---</td><td>65.79</td><td>30.77</td><td>6.72</td><td>57.90</td></tr><tr><td>2</td><td>2745.00</td><td>46.28</td><td>-27.72</td><td>74.00</td><td>63.26</td><td>32.25</td><td>8.62</td></tr><tr><td>3</td><td>2745.00</td><td>45.89</td><td>-8.11</td><td>54.00</td><td>62.87</td><td>32.25</td><td>8.62</td></tr><tr><td>4</td><td>3668.00</td><td>42.20</td><td>-31.80</td><td>74.00</td><td>57.56</td><td>33.00</td><td>9.64</td></tr><tr><td>5</td><td>8235.00</td><td>49.04</td><td>-24.96</td><td>74.00</td><td>60.32</td><td>35.00</td><td>12.03</td></tr><tr><td>6</td><td>8235.00</td><td>48.64</td><td>-5.36</td><td>54.00</td><td>59.92</td><td>35.00</td><td>12.03</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	dB/m	dB	cm	1	1838.00	44.69	---	65.10	30.77	6.72	57.90	2	2745.00	47.26	-26.74	74.00	64.24	32.25	8.62	3	2745.00	46.86	-7.14	54.00	63.84	32.25	8.62	4	3668.00	42.65	-31.35	74.00	58.01	33.00	9.64	5	8235.00	49.77	-24.23	74.00	61.05	35.00	12.03	6	8235.00	49.37	-4.63	54.00	60.65	35.00	12.03		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Freq	Level	Line	Level Factor	Loss Factor			MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	1	1838.00	45.38	---	65.79	30.77	6.72	57.90	2	2745.00	46.28	-27.72	74.00	63.26	32.25	8.62	3	2745.00	45.89	-8.11	54.00	62.87	32.25	8.62	4	3668.00	42.20	-31.80	74.00	57.56	33.00	9.64	5	8235.00	49.04	-24.96	74.00	60.32	35.00	12.03	6	8235.00	48.64	-5.36	54.00	59.92	35.00	12.03
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	3	2745.00	46.86	-7.14	54.00	63.84	32.25	8.62																																																																																																																																														
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	6	8235.00	49.37	-4.63	54.00	60.65	35.00	12.03																																																																																																																																														
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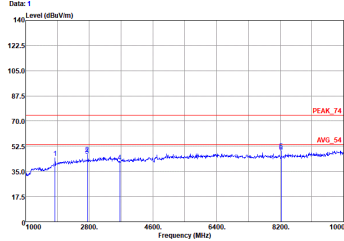
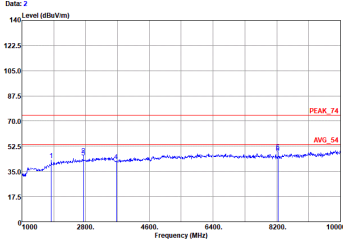
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	1	1855.68	45.19	---	---	65.18	31.83	6.88	57.90	---	---	Peak																																																																																																																																																																																																																
	2	2783.48	47.64	-26.36	74.00	64.65	32.22	8.63	57.86	132	124	Peak																																																																																																																																																																																																																
	3	2783.48	47.24	-6.76	54.00	64.25	32.22	8.63	57.86	132	124	Average																																																																																																																																																																																																																
4	3711.28	42.88	-32.88	74.00	57.29	33.18	9.61	58.88	---	---	Peak																																																																																																																																																																																																																	
5	8358.28	58.14	-23.86	74.00	61.24	35.88	12.07	58.97	132	54	Peak																																																																																																																																																																																																																	
6	8358.28	49.74	-4.26	54.00	68.84	35.88	12.07	58.97	132	54	Average																																																																																																																																																																																																																	
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1	1855.68	42.96	---	---	62.95	31.83	6.88	57.90	---	---	Peak																																																																																																																																																																																																																	
2	2783.48	46.25	-27.75	74.00	63.26	32.22	8.63	57.86	135	45	Peak																																																																																																																																																																																																																	
3	2783.48	45.85	-8.15	54.00	62.86	32.22	8.63	57.86	135	45	Average																																																																																																																																																																																																																	
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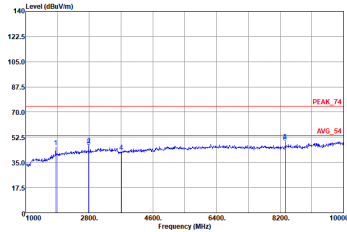
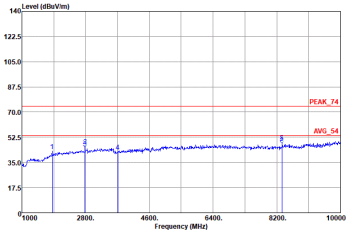
FSK 150Kbps FHSS 150Kbps (Harmonic @ 3m)

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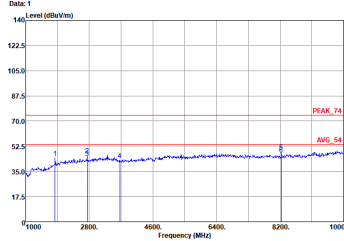
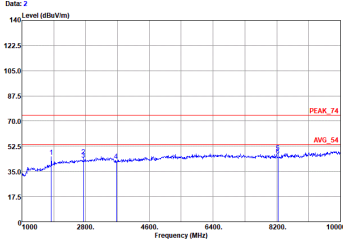
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FSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

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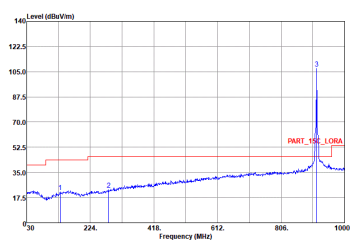
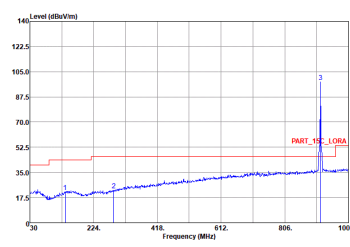
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<30M-1G>
FSK 50Kbps FHSS 50Kbps (LF @ 3m)

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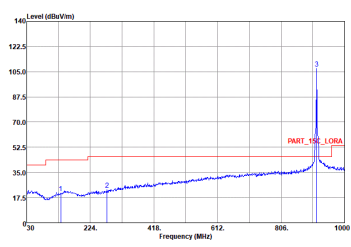
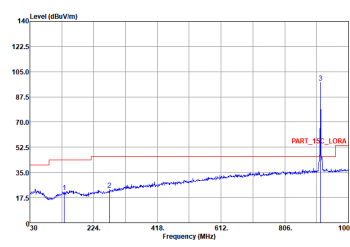
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FSK 150Kbps FHSS 150Kbps (LF @ 3m)

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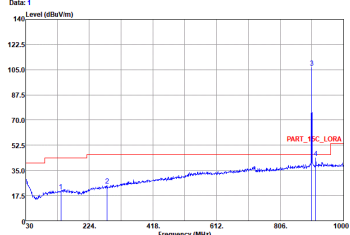
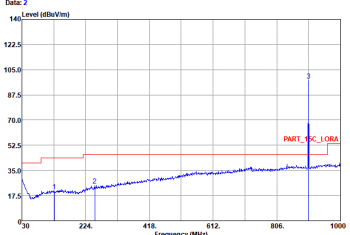
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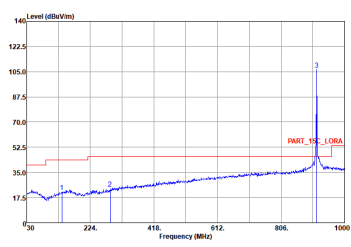
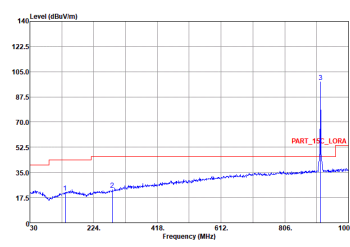
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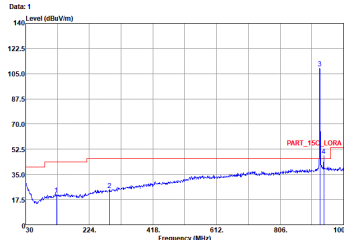
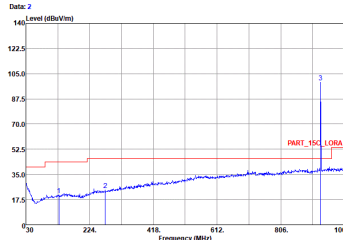
FSK 250Kbps FHSS 250Kbps (LF @ 3m)

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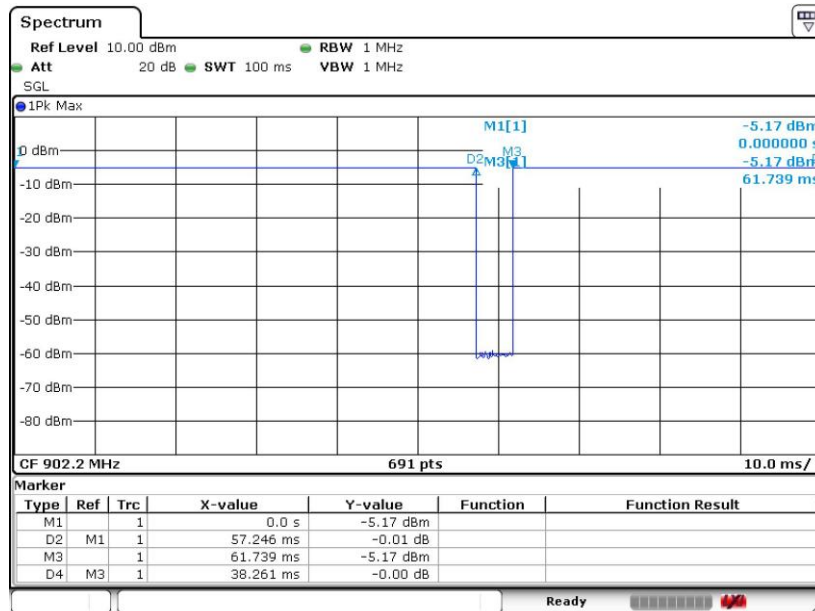
LoRa	LF @ 3m																																																																																																	
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Appendix D. Duty Cycle Plots

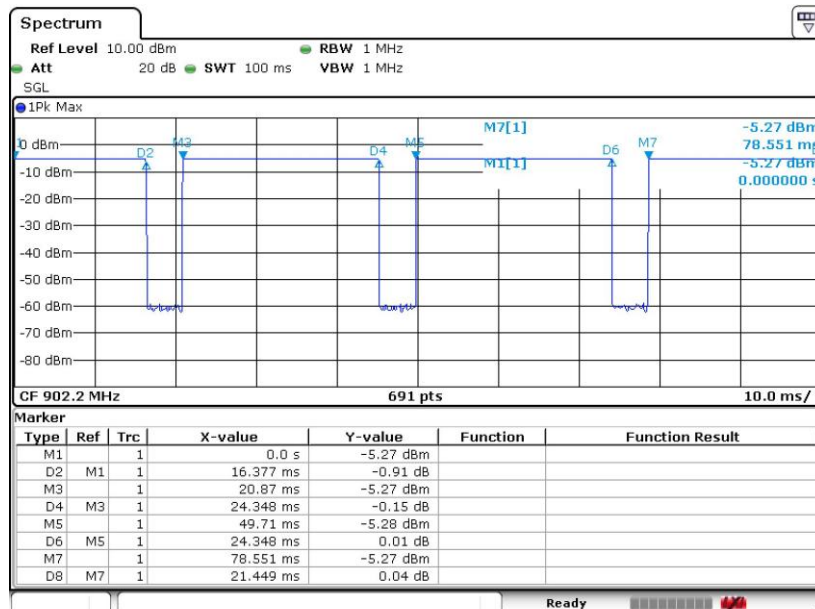
FSK(FHSS)50kbps on time Plot



Note:

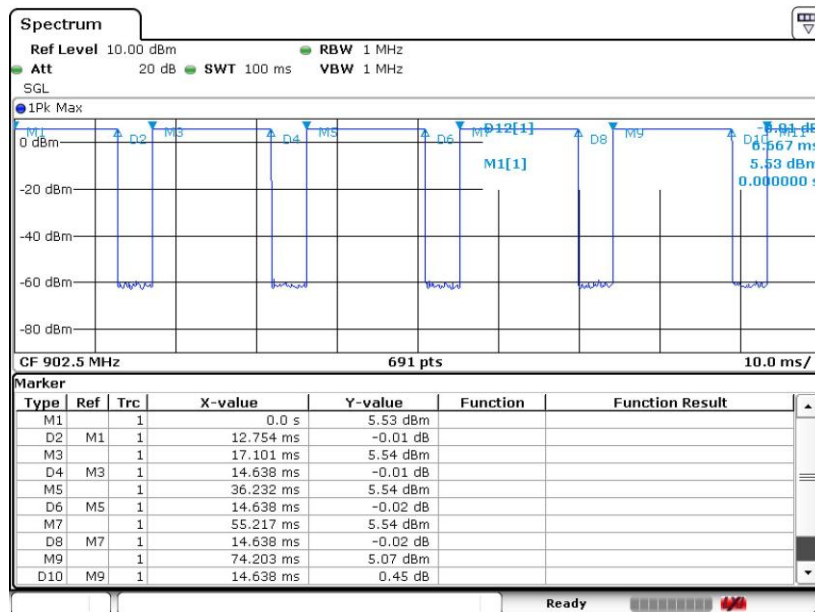
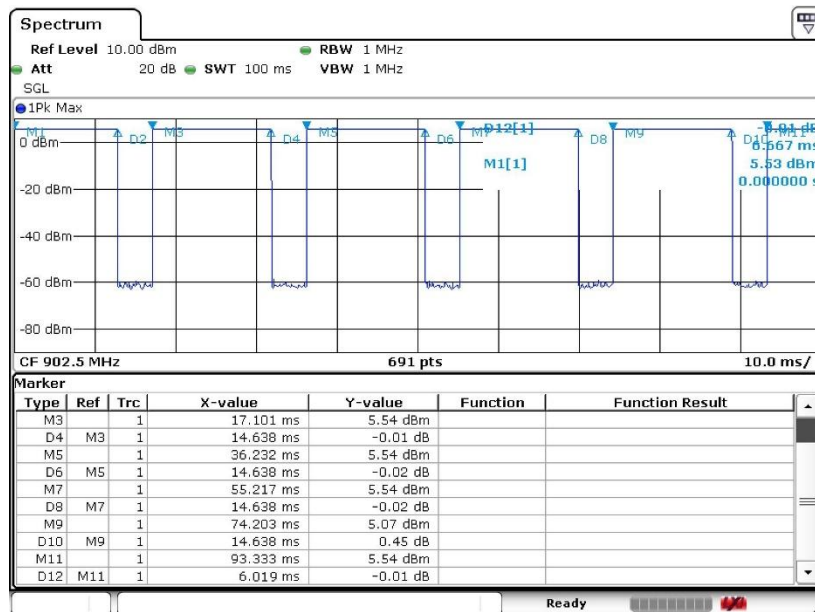
1. Duty cycle = on time/100 milliseconds = 95.51 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -0.40 \text{ dB}$

FSK(FHSS)150kbps on time Plot



Note:

1. Duty cycle = on time/100 milliseconds = 86.52 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -1.26 \text{ dB}$

FSK(FHSS)250kbps on time - Plot 1

FSK(FHSS)250kbps on time - Plot 2

Note:

1. Duty cycle = on time/100 milliseconds = 77.33 %
2. Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -2.23 \text{ dB}$