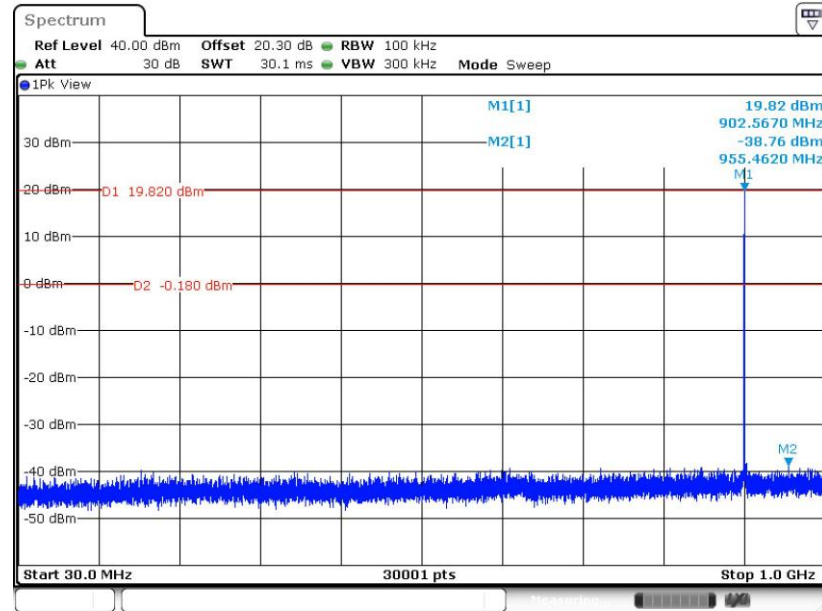




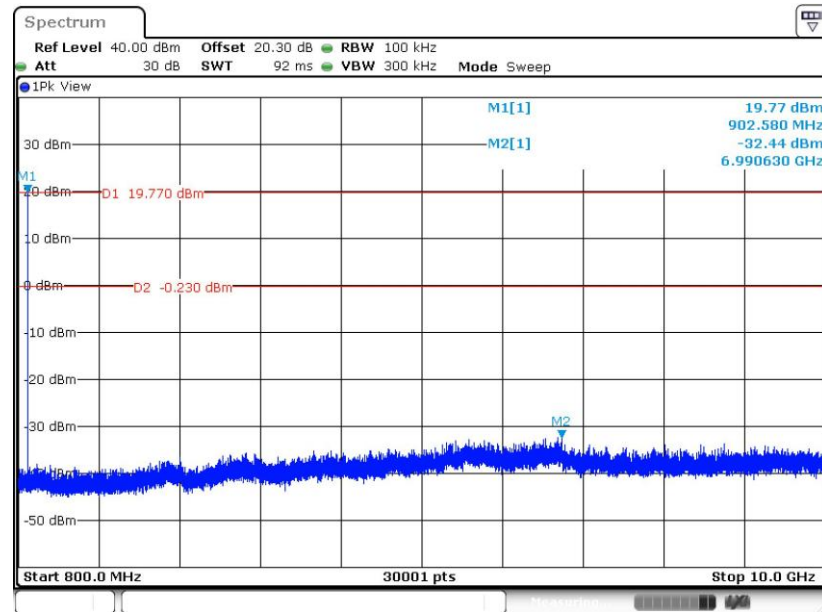
<Data Rate 250kbps>

Low CH CSE Plot



Date: 8.NOV.2025 11:33:37

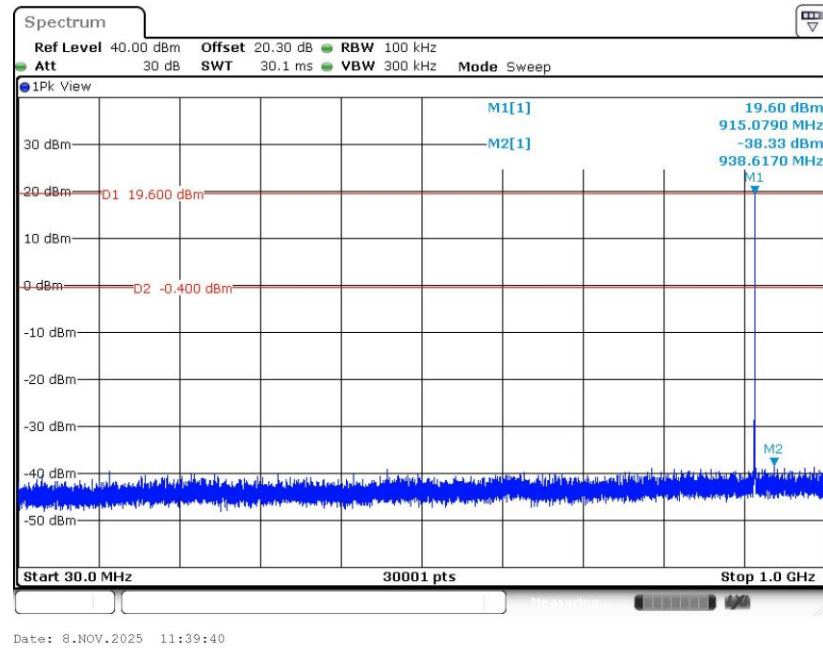
Low CH CSE Plot



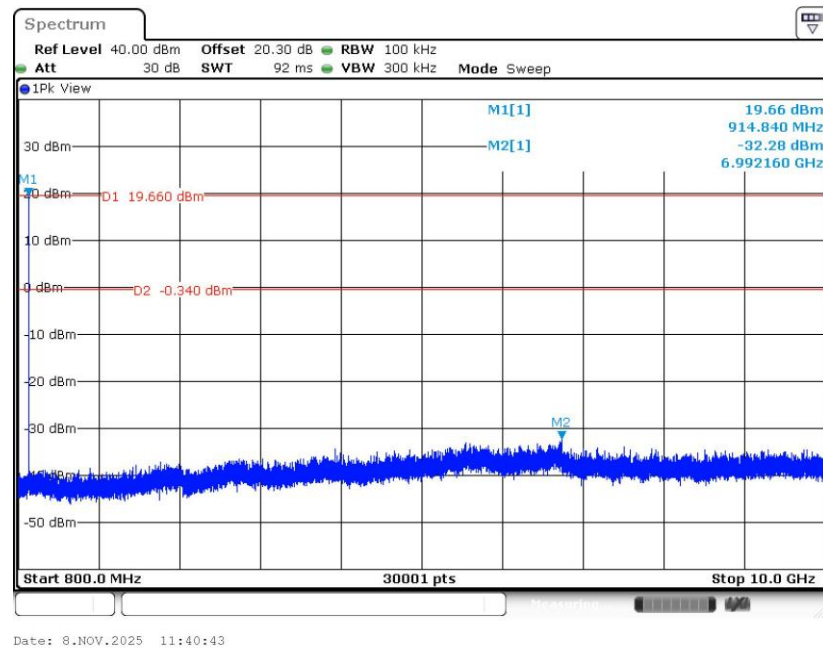
Date: 8.NOV.2025 11:34:29



Mid CH CSE Plot

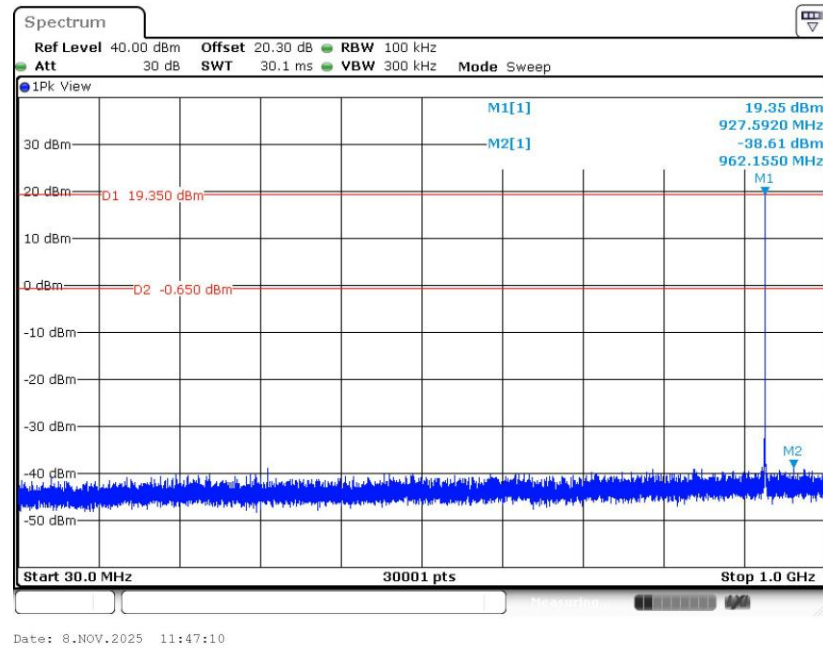


Mid CH CSE Plot

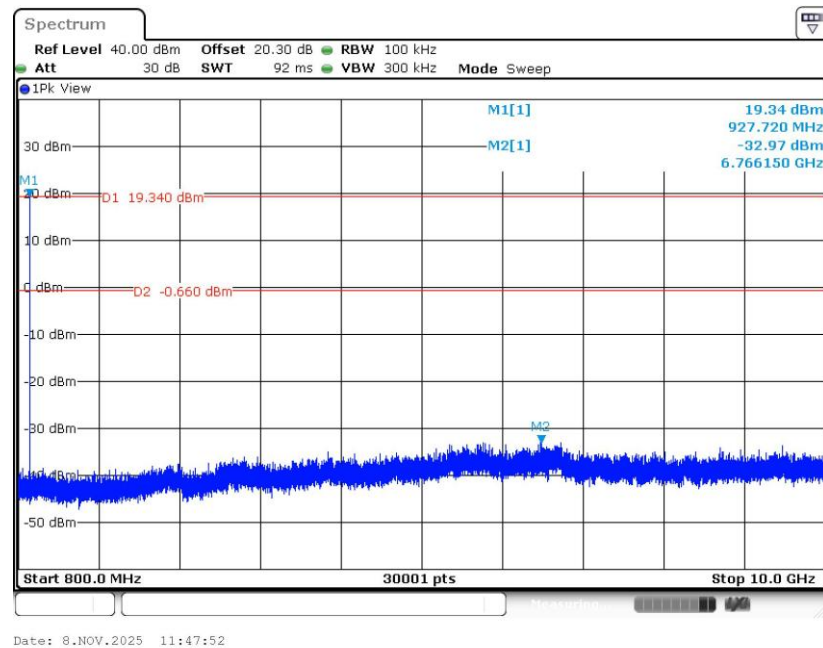




High CH CSE Plot



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

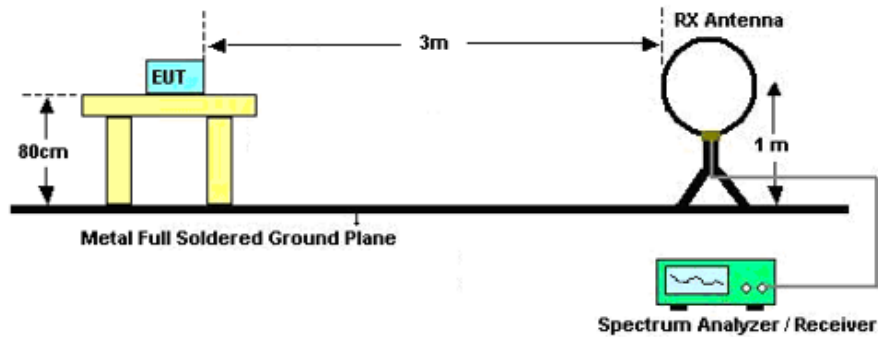
The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

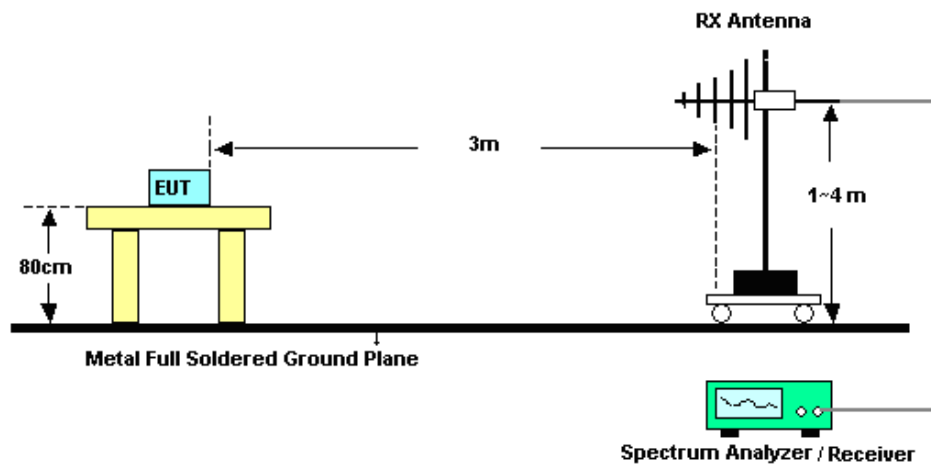
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the 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
On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$
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

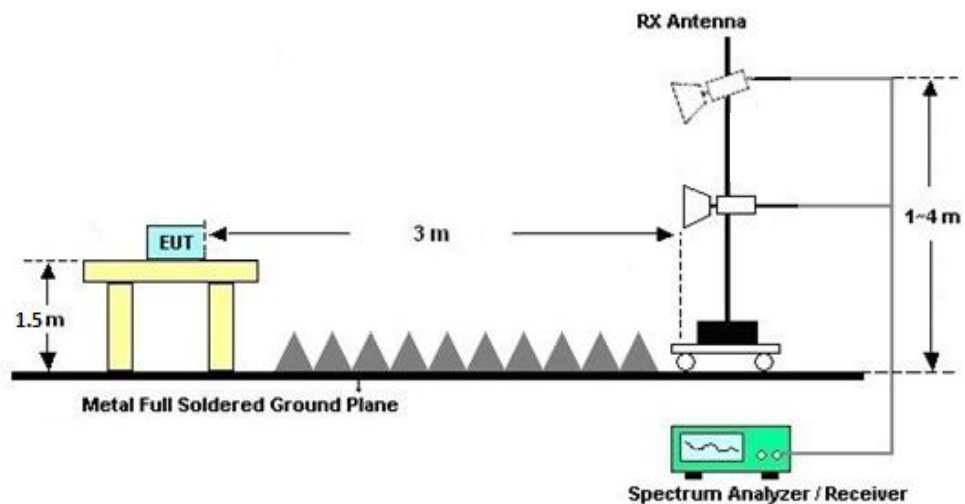
For radiated emissions below 30MHz



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. 08, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Nov. 08, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 13, 2025	Nov. 08, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Attenuator	Woken Tech	WK0602-10	4	10dB	Jan. 13, 2025	Nov. 08, 2025	Jan. 12, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	Nov. 02, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz~44GHz	Apr. 02, 2025	Nov. 02, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 02, 2025~Dec. 16, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 19, 2025	Nov. 02, 2025~Dec. 16, 2025	Aug. 18, 2026	Radiation (03CH03-SZ)
Double Ridge Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2025	Nov. 02, 2025~Dec. 16, 2025	Jul. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 02, 2025~Dec. 16, 2025	Jul. 02, 2026	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 02, 2025~Dec. 16, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Nov. 02, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 13, 2025	Nov. 02, 2025~Dec. 16, 2025	Oct. 12, 2026	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	Nov. 02, 2025~Dec. 16, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 17, 2025	Nov. 02, 2025~Dec. 16, 2025	Oct. 16, 2026	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 02, 2025~Dec. 16, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 02, 2025~Dec. 16, 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:	Liu Qiu Qiu	Temperature:	20~26	°C
Test Date:	2025/11/8	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	0.107	0.500	0.104	0.200	0.1065	Pass
FSK	50Kbps	1	65	915	0.109	0.500	0.104	0.200	0.1088	Pass
FSK	50Kbps	1	129	927.8	0.107	0.500	0.105	0.200	0.1071	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	20.61	22.00	30.00	1.78	22.39	36	Pass
	915	1	20.32	22.00	30.00	1.78	22.10	36	Pass
	927.8	1	20.11	22.00	30.00	1.78	21.89	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	0.158	0.401	0.1742	Pass
FSK	150Kbps	1	915.2	0.174	0.500	0.158	0.401	0.1737	Pass
FSK	150Kbps	1	927.6	0.177	0.500	0.158	0.401	0.1766	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	371.44	0.371	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	20.60	22.00	30.00	1.78	22.38	36	Pass
	915.2	1	20.31	22.00	30.00	1.78	22.09	36	Pass
	927.6	1	20.12	22.00	30.00	1.78	21.90	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	0.270	0.500	0.254	0.499	0.2696	Pass
FSK	250Kbps	1	915	0.270	0.500	0.254	0.499	0.2699	Pass
FSK	250Kbps	1	927.5	0.266	0.500	0.254	0.499	0.2663	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	378.68	0.379	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	20.62	22.00	30.00	1.78	22.40	36	Pass
	915	1	20.31	22.00	30.00	1.78	22.09	36	Pass
	927.5	1	20.12	22.00	30.00	1.78	21.90	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 (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
902.2MHz		1804.4	45.73	-52.95	98.68	66.36	30.63	6.64	57.9	-	-	P	H
		2706.6	46.06	-27.94	74	62.99	32.3	8.61	57.84	100	66	P	H
		2706.6	45.66	-8.34	54	62.59	32.3	8.61	57.84	100	66	A	H
		3608.8	42.8	-31.2	74	58.23	32.9	9.67	58	-	-	P	H
		8119.8	50.41	-23.59	74	61.9	35.84	11.93	59.26	144	169	P	H
		8119.8	50.01	-3.99	54	61.5	35.84	11.93	59.26	144	169	A	H
		1804.4	42.25	-50.53	92.78	62.88	30.63	6.64	57.9	-	-	P	V
		2706.6	45.23	-28.77	74	62.16	32.3	8.61	57.84	148	192	P	V
		2706.6	44.83	-9.17	54	61.76	32.3	8.61	57.84	148	192	A	V
		3608.8	43.76	-30.24	74	59.19	32.9	9.67	58	-	-	P	V
		8119.8	49.14	-24.86	74	60.63	35.84	11.93	59.26	138	109	P	V
		8119.8	48.74	-5.26	54	60.23	35.84	11.93	59.26	138	109	A	V
915MHz		1830	42.51	-56.02	98.53	62.92	30.77	6.72	57.9	-	-	P	H
		2745	46.79	-27.21	74	63.77	32.25	8.62	57.85	188	294	P	H
		2745	46.39	-7.61	54	63.37	32.25	8.62	57.85	188	294	A	H
		3660	41.86	-32.14	74	57.22	33	9.64	58	-	-	P	H
		8235	48.59	-25.41	74	59.87	35.8	12.03	59.11	205	242	P	H
		8235	48.19	-5.81	54	59.47	35.8	12.03	59.11	205	242	A	H
		1830	40.16	-52.62	92.78	60.57	30.77	6.72	57.9	-	-	P	V
		2745	45.51	-28.49	74	62.49	32.25	8.62	57.85	100	174	P	V
		2745	45.11	-8.89	54	62.09	32.25	8.62	57.85	100	174	A	V
		3660	42.14	-31.86	74	57.5	33	9.64	58	-	-	P	V
		8235	47.99	-26.01	74	59.27	35.8	12.03	59.11	110	63	P	V
		8235	47.59	-6.41	54	58.87	35.8	12.03	59.11	110	63	A	V
927.8MHz		2783.4	47.05	-26.95	74	64.06	32.22	8.63	57.86	100	155	P	H
		2783.4	46.65	-7.35	54	63.66	32.22	8.63	57.86	100	155	A	H
		3711.2	41.94	-32.06	74	57.23	33.1	9.61	58	-	-	P	H
		8350.2	49.82	-24.18	74	60.92	35.8	12.07	58.97	108	170	P	H
		8350.2	49.42	-4.58	54	60.52	35.8	12.07	58.97	108	170	A	H
		2783.4	46.26	-27.74	74	63.27	32.22	8.63	57.86	149	284	P	V
		2783.4	45.86	-8.14	54	62.87	32.22	8.63	57.86	149	284	A	V
		3711.2	42.64	-31.36	74	57.93	33.1	9.61	58	-	-	P	V
		8350.2	49.36	-24.64	74	60.46	35.8	12.07	58.97	192	235	P	V
		8350.2	48.96	-5.04	54	60.06	35.8	12.07	58.97	192	235	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



FSK 150K(Harmonic @ 3m)

	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
902.4MHz		1804.8	43.7	-55.35	99.05	64.33	30.63	6.64	57.9	-	-	P	H
		2707.2	46.79	-27.21	74	63.74	32.28	8.61	57.84	100	199	P	H
		2707.2	45.52	-8.48	54	62.47	32.28	8.61	57.84	100	199	A	H
		3609.6	42.75	-31.25	74	58.18	32.9	9.67	58	-	-	P	H
		8121.6	48.69	-25.31	74	60.18	35.84	11.93	59.26	105	214	P	H
		8121.6	47.42	-6.58	54	58.91	35.84	11.93	59.26	105	214	A	H
		1804.8	39.63	-53.26	92.89	60.26	30.63	6.64	57.9	-	-	P	V
		2707.2	45.72	-28.28	74	62.67	32.28	8.61	57.84	244	183	P	V
		2707.2	44.45	-9.55	54	61.4	32.28	8.61	57.84	244	183	A	V
		3609.6	42.33	-31.67	74	57.76	32.9	9.67	58	-	-	P	V
		8121.6	48.44	-25.56	74	59.93	35.84	11.93	59.26	100	162	P	V
		8121.6	47.17	-6.83	54	58.66	35.84	11.93	59.26	100	162	A	V
915.2MHz		1830.4	46.67	-52.48	99.15	67.08	30.77	6.72	57.9	-	-	P	H
		2745.6	46.47	-27.53	74	63.45	32.25	8.62	57.85	175	196	P	H
		2745.6	45.2	-8.8	54	62.18	32.25	8.62	57.85	175	196	A	H
		3660.8	42.18	-31.82	74	57.54	33	9.64	58	-	-	P	H
		8236.8	48.5	-25.5	74	59.78	35.8	12.03	59.11	205	307	P	H
		8236.8	47.23	-6.77	54	58.51	35.8	12.03	59.11	205	307	P	H
		1830.4	42.04	-50.59	92.63	62.45	30.77	6.72	57.9	-	-	P	V
		2745.6	46.01	-27.99	74	62.99	32.25	8.62	57.85	162	194	P	V
		2745.6	44.74	-9.26	54	61.72	32.25	8.62	57.85	162	194	A	V
		3660.8	42.38	-31.62	74	57.74	33	9.64	58	-	-	P	V
		8236.8	47.41	-26.59	74	58.69	35.8	12.03	59.11	298	223	P	V
		8236.8	46.14	-7.86	54	57.42	35.8	12.03	59.11	298	223	A	V
927.6MHz		2782.8	46.18	-27.82	74	63.19	32.22	8.63	57.86	211	105	P	H
		2782.8	44.91	-9.09	54	61.92	32.22	8.63	57.86	211	105	A	H
		3710.4	42.75	-31.25	74	58.04	33.1	9.61	58	-	-	P	H
		8348.4	49.33	-24.67	74	60.43	35.8	12.07	58.97	104	175	P	H
		8348.4	48.06	-5.94	54	59.16	35.8	12.07	58.97	104	175	A	H
		2782.8	45.77	-28.23	74	62.78	32.22	8.63	57.86	125	189	P	V
		2782.8	44.5	-9.5	54	61.51	32.22	8.63	57.86	125	189	A	V
		3710.4	42.6	-31.4	74	57.89	33.1	9.61	58	-	-	P	V
		8348.4	48.69	-25.31	74	59.79	35.8	12.07	58.97	102	263	P	V
		8348.4	47.42	-6.58	54	58.52	35.8	12.07	58.97	102	263	A	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 Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
902.5MHz		1805	43.72	-55.02	98.74	64.35	30.63	6.64	57.9	-	-	P	H
		2707.5	47.31	-26.69	74	64.26	32.28	8.61	57.84	124	180	P	H
		2707.5	45.06	-8.94	54	62.01	32.28	8.61	57.84	124	180	A	H
		3610	42.9	-31.1	74	58.31	32.93	9.66	58	-	-	P	H
		8122.5	50.86	-23.14	74	62.35	35.84	11.93	59.26	207	129	P	H
		8122.5	48.61	-5.39	54	60.1	35.84	11.93	59.26	207	129	P	H
		1805	42.4	-50.07	92.47	63.03	30.63	6.64	57.9	-	-	P	V
		2707.5	46.34	-27.66	74	63.29	32.28	8.61	57.84	163	294	P	V
		2707.5	44.09	-9.91	54	61.04	32.28	8.61	57.84	163	294	A	V
		3610	43.43	-30.57	74	58.84	32.93	9.66	58	-	-	P	V
		8122.5	50.2	-23.8	74	61.69	35.84	11.93	59.26	100	214	P	V
		8122.5	47.95	-6.05	54	59.44	35.84	11.93	59.26	100	214	A	V
915.0MHz		1830	45.4	-52.95	98.35	65.81	30.77	6.72	57.9	-	-	P	H
		2745	46.54	-27.46	74	63.52	32.25	8.62	57.85	100	188	P	H
		2745	44.29	-9.71	54	61.27	32.25	8.62	57.85	100	188	A	H
		3660	43.34	-30.66	74	58.7	33	9.64	58	-	-	P	H
		8235	48.77	-25.23	74	60.05	35.8	12.03	59.11	145	248	P	H
		8235	46.52	-7.48	54	57.8	35.8	12.03	59.11	145	248	A	H
		1830	41.84	-50.79	92.63	62.25	30.77	6.72	57.9	-	-	P	V
		2745	45.91	-28.09	74	62.89	32.25	8.62	57.85	132	196	P	V
		2745	43.66	-10.34	54	60.64	32.25	8.62	57.85	132	196	A	V
		3660	43.29	-30.71	74	58.65	33	9.64	58	-	-	P	V
		8235	48.4	-25.6	74	59.68	35.8	12.03	59.11	100	182	P	V
		8235	46.15	-7.85	54	57.43	35.8	12.03	59.11	100	182	A	V
927.5MHz		1855	46.41	-50.88	97.29	66.4	31.03	6.88	57.9	-	-	P	H
		2782.5	46.53	-27.47	74	63.54	32.22	8.63	57.86	148	207	P	H
		2782.5	44.28	-9.72	54	61.29	32.22	8.63	57.86	148	207	A	H
		3710	42.15	-31.85	74	57.44	33.1	9.61	58	-	-	P	H
		8347.5	49.6	-24.4	74	60.7	35.8	12.07	58.97	118	236	P	H
		8347.5	47.35	-6.65	54	58.45	35.8	12.07	58.97	118	236	A	H
		1855	43.26	-47.87	91.13	63.25	31.03	6.88	57.9	-	-	P	V
		2782.5	45.92	-28.08	74	62.93	32.22	8.63	57.86	100	45	P	V
		2782.5	43.67	-10.33	54	60.68	32.22	8.63	57.86	100	45	A	V
		3710	42.52	-31.48	74	57.81	33.1	9.61	58	-	-	P	V
		8347.5	48.99	-25.01	74	60.09	35.8	12.07	58.97	100	195	P	V
		8347.5	46.74	-7.26	54	57.84	35.8	12.07	58.97	100	195	A	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 (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
902.2MHz		128.94	20.74	-22.76	43.5	34.83	16.45	1.16	31.7	-	-	P	H
		261.83	24.49	-21.51	46	35.69	18.69	1.69	31.58	-	-	P	H
		870.02	44.92	-53.76	98.68	43.23	29	3.09	30.4	-	-	P	H
	*	902.2	118.68	----	----	117.39	29.13	3.16	31	-	-	P	H
		914.64	54.72	-43.96	98.68	53.02	29.49	3.18	30.97	-	-	P	H
		921.43	48.01	-50.67	98.68	46.09	29.69	3.19	30.96	-	-	P	H
		934.04	47.97	-50.71	98.68	45.63	30.06	3.21	30.93	-	-	P	H
		136.7	21.08	-22.42	43.5	35	16.58	1.2	31.7	-	-	P	V
		260.86	24.53	-21.47	46	35.76	18.67	1.68	31.58	-	-	P	V
	*	902.2	112.78	----	----	111.49	29.13	3.16	31	-	-	P	V
		914.64	48.72	-44.06	92.78	47.02	29.49	3.18	30.97	-	-	P	V
		934.04	44.75	-48.03	92.78	42.41	30.06	3.21	30.93	-	-	P	V
915MHz		132.82	21.85	-21.65	43.5	36.68	17.84	2.23	34.9	-	-	P	H
		276.38	23.19	-22.81	46	36.2	18.62	3.12	34.75	-	-	P	H
	*	915	118.53	----	----	118.74	29.34	4.45	34	-	-	P	H
		135.73	22.16	-21.34	43.5	36.8	18.01	2.25	34.9	-	-	P	V
		282.2	22.71	-23.29	46	35.51	18.8	3.14	34.74	-	-	P	V
	*	915	112.78	----	----	112.99	29.34	4.45	34	-	-	P	V
927.8MHz		135.73	21.04	-22.46	43.5	34.98	16.57	1.19	31.7	-	-	P	H
		272.5	24.48	-21.52	46	35.49	18.83	1.72	31.56	-	-	P	H
		896.21	45.37	-51.08	96.45	44.08	29.06	3.15	30.92	-	-	P	H
	*	927.8	116.45	----	----	114.31	29.88	3.2	30.94	-	-	P	H
		939.86	53.7	-42.75	96.45	51.17	30.23	3.22	30.92	-	-	P	H
		126.03	20.86	-22.64	43.5	35.02	16.39	1.15	31.7	-	-	P	V
		258.92	24.49	-21.51	46	35.74	18.65	1.68	31.58	-	-	P	V
		804.06	44.03	-46.29	90.32	43.6	28.4	2.95	30.92	-	-	P	V
	*	927.8	110.32	----	----	108.18	29.88	3.2	30.94	-	-	P	V
		939.86	46.1	-44.22	90.32	43.57	30.23	3.22	30.92	-	-	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 (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
902.4MHz		136.7	21.22	-22.28	43.5	35.14	16.58	1.2	31.7	-	-	P	H
		278.32	25.16	-20.84	46	36.06	18.9	1.74	31.54	-	-	P	H
		870.02	45.85	-53.2	99.05	44.16	29	3.09	30.4	-	-	P	H
	*	902.4	119.05	----	----	117.75	29.14	3.16	31	-	-	P	H
		914.64	55.27	-43.78	99.05	53.57	29.49	3.18	30.97	-	-	P	H
		921.43	46.9	-52.15	99.05	44.98	29.69	3.19	30.96	-	-	P	H
		934.04	48.94	-50.11	99.05	46.6	30.06	3.21	30.93	-	-	P	H
		134.76	21.98	-21.52	43.5	35.94	16.55	1.19	31.7	-	-	P	V
		279.29	24.49	-21.51	46	35.37	18.92	1.74	31.54	-	-	P	V
	*	902.4	112.89	----	----	111.59	29.14	3.16	31	-	-	P	V
915.2MHz		132.82	21.32	-22.18	43.5	36.15	17.84	2.23	34.9	-	-	P	H
		266.68	23.17	-22.83	46	36.54	18.31	3.08	34.76	-	-	P	H
	*	915.2	119.15	----	----	119.36	29.34	4.45	34	-	-	P	H
		136.7	21.39	-22.11	43.5	35.97	18.07	2.25	34.9	-	-	P	V
		283.17	23.42	-22.58	46	36.19	18.83	3.14	34.74	-	-	P	V
	*	915.2	112.63	----	----	112.84	29.34	4.45	34	-	-	P	V
927.6MHz		130.88	21.32	-22.18	43.5	35.37	16.48	1.17	31.7	-	-	P	H
		282.2	24.81	-21.19	46	35.64	18.96	1.75	31.54	-	-	P	H
		803.09	49.16	-47.53	96.69	48.76	28.39	2.95	30.94	-	-	P	H
		805.03	47.6	-49.09	96.69	47.14	28.41	2.95	30.9	-	-	P	H
		895.24	45.65	-51.04	96.69	44.34	29.06	3.15	30.9	-	-	P	H
	*	927.6	116.69	----	----	114.56	29.87	3.2	30.94	-	-	P	H
		939.86	53.4	-43.29	96.69	50.87	30.23	3.22	30.92	-	-	P	H
		946.65	46.21	-50.48	96.69	43.47	30.42	3.23	30.91	-	-	P	H
		959.26	44.4	-52.29	96.69	41.58	30.47	3.25	30.9	-	-	P	H
		137.67	21.24	-22.26	43.5	35.14	16.6	1.2	31.7	-	-	P	V
		280.26	24.2	-21.8	46	35.07	18.93	1.74	31.54	-	-	P	V
	*	927.6	111.18	----	----	109.05	29.87	3.2	30.94	-	-	P	V
		939.86	49.35	-41.83	91.18	46.82	30.23	3.22	30.92	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



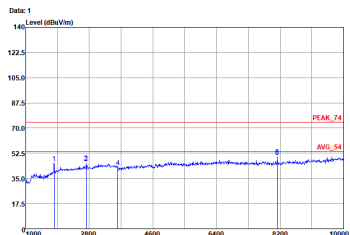
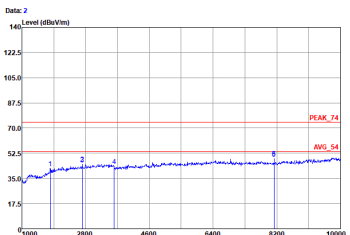
FSK 250K(LF @ 3m)

	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
902.5MHz		123.12	21.95	-21.55	43.5	36.18	16.34	1.13	31.7	-	-	P	H
		281.23	24.75	-21.25	46	35.61	18.94	1.74	31.54	-	-	P	H
		870.02	44.41	-54.33	98.74	42.72	29	3.09	30.4	-	-	P	H
	*	902.5	118.74	----	----	117.44	29.14	3.16	31	-	-	P	H
		914.64	54.16	-44.58	98.74	52.46	29.49	3.18	30.97	-	-	P	H
		934.04	47.67	-51.07	98.74	45.33	30.06	3.21	30.93	-	-	P	H
		134.76	21.18	-22.32	43.5	35.14	16.55	1.19	31.7	-	-	P	V
		270.56	24.7	-21.3	46	35.75	18.8	1.71	31.56	-	-	P	V
	*	902.5	112.47	----	----	111.17	29.14	3.16	31	-	-	P	V
		914.64	48.23	-44.24	92.47	46.53	29.49	3.18	30.97	-	-	P	V
		935.01	42.65	-49.82	92.47	40.28	30.09	3.21	30.93	-	-	P	V
915MHz		130.88	21.04	-22.46	43.5	35.99	17.73	2.22	34.9	-	-	P	H
		241.46	23.99	-22.01	46	38.38	17.47	2.96	34.82	-	-	P	H
	*	915	118.35	----	----	118.56	29.34	4.45	34	-	-	P	H
		137.67	21.44	-22.06	43.5	35.95	18.13	2.26	34.9	-	-	P	V
		279.29	23.84	-22.16	46	36.74	18.71	3.13	34.74	-	-	P	V
	*	915	112.63	----	----	112.84	29.34	4.45	34	-	-	P	V
927.5MHz		133.79	20.97	-22.53	43.5	34.96	16.53	1.18	31.7	-	-	P	H
		277.35	24.6	-21.4	46	35.53	18.89	1.73	31.55	-	-	P	H
		680.87	43.82	-53.47	97.29	45.56	26.68	2.72	31.14	-	-	P	H
		804.06	56.42	-40.87	97.29	55.99	28.4	2.95	30.92	-	-	P	H
		895.24	45.25	-52.04	97.29	43.94	29.06	3.15	30.9	-	-	P	H
	*	927.5	117.29	----	----	115.16	29.87	3.2	30.94	-	-	P	H
		939.86	52.92	-44.37	97.29	50.39	30.23	3.22	30.92	-	-	P	H
		945.68	44.97	-52.32	97.29	42.27	30.39	3.22	30.91	-	-	P	H
		125.06	21.27	-22.23	43.5	35.45	16.38	1.14	31.7	-	-	P	V
		260.86	24.1	-21.9	46	35.33	18.67	1.68	31.58	-	-	P	V
		804.06	52.05	-39.08	91.13	51.62	28.4	2.95	30.92	-	-	P	V
	*	927.5	111.13	----	----	109	29.87	3.2	30.94	-	-	P	V
		939.86	46.66	-44.47	91.13	44.13	30.23	3.22	30.92	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

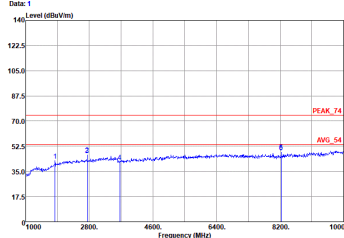
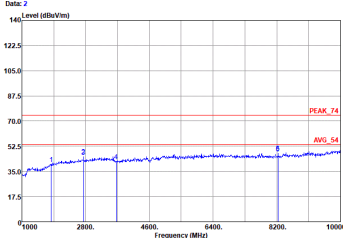


Appendix C. Radiated Spurious Emission Plots

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

LoRa	Harmonic @ 3m																																																																																																																																																																																																			
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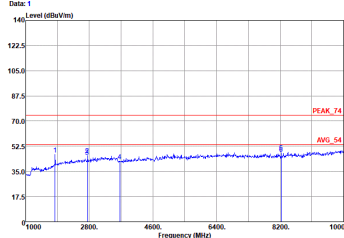
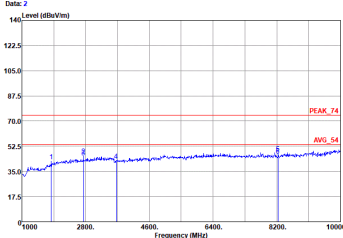
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		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																										
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	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm																																																																																																																											
1	2783.48	47.05	---	64.06	32.22	8.63	57.86																																																																																																																											
2	2783.48	46.65	-7.35	54.00	63.66	32.22	8.63																																																																																																																											
3	3711.20	41.94	-32.86	74.00	57.23	33.10	9.61																																																																																																																											
4	8358.20	49.82	-24.18	74.00	68.92	35.80	12.07																																																																																																																											
5	8358.20	49.42	-4.58	54.00	68.52	35.80	12.07																																																																																																																											
	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																											
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	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm																																																																																																																											
1	2783.48	46.26	---	63.27	32.22	8.63	57.86																																																																																																																											
2	2783.48	45.86	-8.14	54.00	62.87	32.22	8.63																																																																																																																											
3	3711.20	42.64	-31.36	74.00	57.93	33.10	9.61																																																																																																																											
4	8358.20	49.36	-24.64	74.00	68.46	35.80	12.07																																																																																																																											
5	8358.20	48.96	-5.04	54.00	68.06	35.80	12.07																																																																																																																											



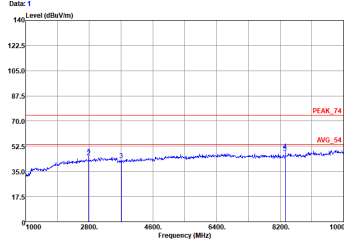
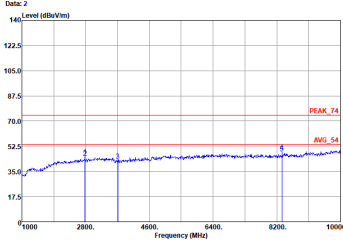
FSK 150Kbps FHSS 150Kbps (Harmonic @ 3m)

LoRa	Harmonic @ 3m																																																																																																																																																																	
ANT	FSK 150Kbps FHSS 150Kbps CH01 902.4MHz																																																																																																																																																																	
	Horizontal	Vertical																																																																																																																																																																
Peak	Date: 1 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Line</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><th></th></tr><tr><td>1</td><td>1804.88</td><td>43.79</td><td>---</td><td>64.33</td><td>30.63</td><td>6.64</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2787.20</td><td>46.79</td><td>-27.21</td><td>74.00</td><td>63.74</td><td>32.28</td><td>8.61</td><td>57.84</td><td>100</td></tr><tr><td>3</td><td>2787.20</td><td>45.52</td><td>-8.48</td><td>54.00</td><td>62.47</td><td>32.28</td><td>8.61</td><td>57.84</td><td>100</td></tr><tr><td>4</td><td>3099.68</td><td>42.75</td><td>-31.25</td><td>74.00</td><td>58.18</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td></tr><tr><td>5</td><td>8121.68</td><td>48.69</td><td>-25.31</td><td>74.00</td><td>60.18</td><td>35.84</td><td>11.93</td><td>59.26</td><td>105</td></tr><tr><td>6</td><td>8121.68</td><td>47.42</td><td>-6.58</td><td>54.00</td><td>58.91</td><td>35.84</td><td>11.93</td><td>59.26</td><td>105</td></tr></table>	Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1	1804.88	43.79	---	64.33	30.63	6.64	57.90	---	Peak	2	2787.20	46.79	-27.21	74.00	63.74	32.28	8.61	57.84	100	3	2787.20	45.52	-8.48	54.00	62.47	32.28	8.61	57.84	100	4	3099.68	42.75	-31.25	74.00	58.18	32.90	9.67	58.00	---	5	8121.68	48.69	-25.31	74.00	60.18	35.84	11.93	59.26	105	6	8121.68	47.42	-6.58	54.00	58.91	35.84	11.93	59.26	105	Date: 2 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>Line</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><th></th></tr><tr><td>1</td><td>1804.88</td><td>39.93</td><td>---</td><td>68.26</td><td>38.93</td><td>6.64</td><td>57.90</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2787.20</td><td>45.72</td><td>-28.28</td><td>74.00</td><td>62.47</td><td>32.28</td><td>8.61</td><td>57.84</td><td>244</td></tr><tr><td>3</td><td>2787.20</td><td>44.45</td><td>-9.55</td><td>54.00</td><td>61.40</td><td>32.28</td><td>8.61</td><td>57.84</td><td>244</td></tr><tr><td>4</td><td>3099.68</td><td>42.33</td><td>-31.67</td><td>74.00</td><td>57.76</td><td>32.90</td><td>9.67</td><td>58.00</td><td>---</td></tr><tr><td>5</td><td>8121.68</td><td>48.44</td><td>-25.56</td><td>74.00</td><td>59.93</td><td>35.84</td><td>11.93</td><td>59.26</td><td>100</td></tr><tr><td>6</td><td>8121.68</td><td>47.17</td><td>-6.83</td><td>54.00</td><td>58.66</td><td>35.84</td><td>11.93</td><td>59.26</td><td>100</td></tr></table>	Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1	1804.88	39.93	---	68.26	38.93	6.64	57.90	---	Peak	2	2787.20	45.72	-28.28	74.00	62.47	32.28	8.61	57.84	244	3	2787.20	44.45	-9.55	54.00	61.40	32.28	8.61	57.84	244	4	3099.68	42.33	-31.67	74.00	57.76	32.90	9.67	58.00	---	5	8121.68	48.44	-25.56	74.00	59.93	35.84	11.93	59.26	100	6	8121.68	47.17	-6.83	54.00	58.66	35.84	11.93	59.26	100
	Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																								
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																																																																																										
1	1804.88	43.79	---	64.33	30.63	6.64	57.90	---	Peak																																																																																																																																																									
2	2787.20	46.79	-27.21	74.00	63.74	32.28	8.61	57.84	100																																																																																																																																																									
3	2787.20	45.52	-8.48	54.00	62.47	32.28	8.61	57.84	100																																																																																																																																																									
4	3099.68	42.75	-31.25	74.00	58.18	32.90	9.67	58.00	---																																																																																																																																																									
5	8121.68	48.69	-25.31	74.00	60.18	35.84	11.93	59.26	105																																																																																																																																																									
6	8121.68	47.42	-6.58	54.00	58.91	35.84	11.93	59.26	105																																																																																																																																																									
Freq	Level	Over Limit	Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																									
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1	1804.88	39.93	---	68.26	38.93	6.64	57.90	---	Peak																																																																																																																																																									
2	2787.20	45.72	-28.28	74.00	62.47	32.28	8.61	57.84	244																																																																																																																																																									
3	2787.20	44.45	-9.55	54.00	61.40	32.28	8.61	57.84	244																																																																																																																																																									
4	3099.68	42.33	-31.67	74.00	57.76	32.90	9.67	58.00	---																																																																																																																																																									
5	8121.68	48.44	-25.56	74.00	59.93	35.84	11.93	59.26	100																																																																																																																																																									
6	8121.68	47.17	-6.83	54.00	58.66	35.84	11.93	59.26	100																																																																																																																																																									



LoRa	Harmonic @ 3m																																																																																																																																																																																																								
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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><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>deg</th><th></th></tr><tr><td>1</td><td>1838.48</td><td>46.67</td><td>---</td><td>67.88</td><td>38.77</td><td>6.72</td><td>57.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2745.68</td><td>46.47</td><td>-27.53</td><td>74.00</td><td>63.45</td><td>32.25</td><td>8.62</td><td>57.85</td><td>175</td><td>196</td><td>Peak</td></tr><tr><td>3</td><td>2745.68</td><td>45.28</td><td>-8.80</td><td>54.00</td><td>62.18</td><td>32.25</td><td>8.62</td><td>57.85</td><td>175</td><td>196</td><td>Average</td></tr><tr><td>4</td><td>3668.88</td><td>42.18</td><td>-31.82</td><td>74.00</td><td>57.54</td><td>33.00</td><td>9.64</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>8236.88</td><td>48.58</td><td>-25.58</td><td>74.00</td><td>59.78</td><td>35.88</td><td>12.83</td><td>59.11</td><td>205</td><td>387</td><td>Peak</td></tr><tr><td>6</td><td>8236.88</td><td>47.23</td><td>-6.77</td><td>54.00</td><td>58.51</td><td>35.88</td><td>12.83</td><td>59.11</td><td>205</td><td>387</td><td>Average</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	deg		1	1838.48	46.67	---	67.88	38.77	6.72	57.98	---	---	Peak	2	2745.68	46.47	-27.53	74.00	63.45	32.25	8.62	57.85	175	196	Peak	3	2745.68	45.28	-8.80	54.00	62.18	32.25	8.62	57.85	175	196	Average	4	3668.88	42.18	-31.82	74.00	57.54	33.00	9.64	58.00	---	---	Peak	5	8236.88	48.58	-25.58	74.00	59.78	35.88	12.83	59.11	205	387	Peak	6	8236.88	47.23	-6.77	54.00	58.51	35.88	12.83	59.11	205	387	Average	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><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>deg</th><th></th></tr><tr><td>1</td><td>1838.48</td><td>42.84</td><td>---</td><td>62.45</td><td>38.77</td><td>6.72</td><td>57.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>2745.68</td><td>46.81</td><td>-27.99</td><td>74.00</td><td>62.99</td><td>32.25</td><td>8.62</td><td>57.85</td><td>162</td><td>194</td><td>Peak</td></tr><tr><td>3</td><td>2745.68</td><td>44.74</td><td>-9.26</td><td>54.00</td><td>61.72</td><td>32.25</td><td>8.62</td><td>57.85</td><td>162</td><td>194</td><td>Average</td></tr><tr><td>4</td><td>3668.88</td><td>42.38</td><td>-31.62</td><td>74.00</td><td>57.74</td><td>33.00</td><td>9.64</td><td>58.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>8236.88</td><td>47.41</td><td>-26.59</td><td>74.00</td><td>58.69</td><td>35.88</td><td>12.83</td><td>59.11</td><td>298</td><td>223</td><td>Peak</td></tr><tr><td>6</td><td>8236.88</td><td>46.14</td><td>-7.86</td><td>54.00</td><td>57.42</td><td>35.88</td><td>12.83</td><td>59.11</td><td>298</td><td>223</td><td>Average</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	deg		1	1838.48	42.84	---	62.45	38.77	6.72	57.98	---	---	Peak	2	2745.68	46.81	-27.99	74.00	62.99	32.25	8.62	57.85	162	194	Peak	3	2745.68	44.74	-9.26	54.00	61.72	32.25	8.62	57.85	162	194	Average	4	3668.88	42.38	-31.62	74.00	57.74	33.00	9.64	58.00	---	---	Peak	5	8236.88	47.41	-26.59	74.00	58.69	35.88	12.83	59.11	298	223	Peak	6	8236.88	46.14	-7.86	54.00	57.42	35.88	12.83	59.11	298	223	Average
		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																																																	
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	1	1838.48	46.67	---	67.88	38.77	6.72	57.98	---	---	Peak																																																																																																																																																																																														
	2	2745.68	46.47	-27.53	74.00	63.45	32.25	8.62	57.85	175	196	Peak																																																																																																																																																																																													
	3	2745.68	45.28	-8.80	54.00	62.18	32.25	8.62	57.85	175	196	Average																																																																																																																																																																																													
4	3668.88	42.18	-31.82	74.00	57.54	33.00	9.64	58.00	---	---	Peak																																																																																																																																																																																														
5	8236.88	48.58	-25.58	74.00	59.78	35.88	12.83	59.11	205	387	Peak																																																																																																																																																																																														
6	8236.88	47.23	-6.77	54.00	58.51	35.88	12.83	59.11	205	387	Average																																																																																																																																																																																														
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1	1838.48	42.84	---	62.45	38.77	6.72	57.98	---	---	Peak																																																																																																																																																																																															
2	2745.68	46.81	-27.99	74.00	62.99	32.25	8.62	57.85	162	194	Peak																																																																																																																																																																																														
3	2745.68	44.74	-9.26	54.00	61.72	32.25	8.62	57.85	162	194	Average																																																																																																																																																																																														
4	3668.88	42.38	-31.62	74.00	57.74	33.00	9.64	58.00	---	---	Peak																																																																																																																																																																																														
5	8236.88	47.41	-26.59	74.00	58.69	35.88	12.83	59.11	298	223	Peak																																																																																																																																																																																														
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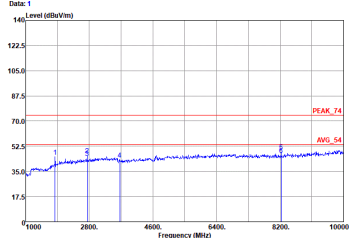
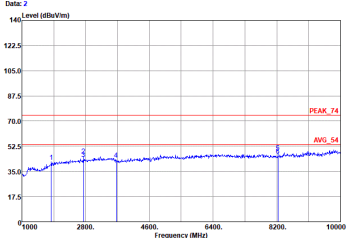
LoRa	Harmonic @ 3m																																																																																																																																																																																															
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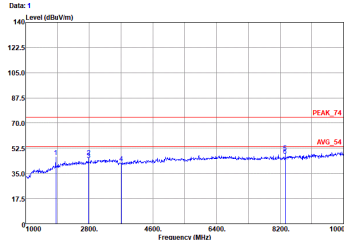
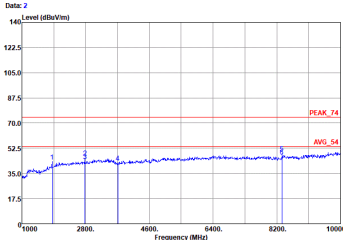
FSK 250Kbps FHSS 250Kbps (Harmonic @ 3m)

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		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																		
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1	1838.00	45.48	---	---	65.81	38.77	6.72 57.90	---	Peak																																																																																																																																																																	
2	2745.00	46.54	-27.46	74.00	63.52	32.25	8.62 57.85	188	Peak																																																																																																																																																																	
3	2745.00	44.29	-9.71	54.00	61.27	32.25	8.62 57.85	188	Average																																																																																																																																																																	
4	3668.00	43.34	-38.66	74.00	58.70	33.00	9.64 58.00	---	Peak																																																																																																																																																																	
5	8235.00	48.77	-25.23	74.00	68.05	35.00	12.03 59.11	145	248 Peak																																																																																																																																																																	
6	8235.00	46.52	-7.48	54.00	57.80	35.00	12.03 59.11	145	248 Average																																																																																																																																																																	
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1	1838.00	41.84	---	---	62.25	38.77	6.72 57.90	---	Peak																																																																																																																																																																	
2	2745.00	45.91	-28.09	74.00	62.89	32.25	8.62 57.85	132	196 Peak																																																																																																																																																																	
3	2745.00	43.66	-10.34	54.00	60.64	32.25	8.62 57.85	132	196 Average																																																																																																																																																																	
4	3668.00	43.29	-30.71	74.00	58.65	33.00	9.64 58.00	---	Peak																																																																																																																																																																	
5	8235.00	48.40	-25.60	74.00	59.68	35.00	12.03 59.11	180	182 Peak																																																																																																																																																																	
6	8235.00	46.15	-7.85	54.00	57.43	35.00	12.03 59.11	180	182 Average																																																																																																																																																																	



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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>dB/m</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>1855.00</td><td>46.41</td><td>---</td><td>---</td><td>66.40</td><td>31.83</td><td>6.88 57.90</td></tr><tr><td>2</td><td>2782.50</td><td>46.53</td><td>-27.47</td><td>74.00</td><td>63.54</td><td>32.22</td><td>8.63 57.86 148 207 Peak</td></tr><tr><td>3</td><td>2782.50</td><td>44.28</td><td>-9.72</td><td>54.00</td><td>61.29</td><td>32.22</td><td>8.63 57.86 148 207 Average</td></tr><tr><td>4</td><td>3718.00</td><td>42.15</td><td>-31.85</td><td>74.00</td><td>57.44</td><td>33.10</td><td>9.61 58.00</td></tr><tr><td>5</td><td>8347.50</td><td>49.60</td><td>-24.40</td><td>74.00</td><td>60.70</td><td>35.00</td><td>12.07 58.97 118 236 Peak</td></tr><tr><td>6</td><td>8347.50</td><td>47.35</td><td>-6.65</td><td>54.00</td><td>58.45</td><td>35.00</td><td>12.07 58.97 118 236 Average</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	1855.00	46.41	---	---	66.40	31.83	6.88 57.90	2	2782.50	46.53	-27.47	74.00	63.54	32.22	8.63 57.86 148 207 Peak	3	2782.50	44.28	-9.72	54.00	61.29	32.22	8.63 57.86 148 207 Average	4	3718.00	42.15	-31.85	74.00	57.44	33.10	9.61 58.00	5	8347.50	49.60	-24.40	74.00	60.70	35.00	12.07 58.97 118 236 Peak	6	8347.50	47.35	-6.65	54.00	58.45	35.00	12.07 58.97 118 236 Average	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>dB/m</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>1855.00</td><td>43.26</td><td>---</td><td>---</td><td>63.25</td><td>31.83</td><td>6.88 57.90</td></tr><tr><td>2</td><td>2782.50</td><td>45.92</td><td>-28.08</td><td>74.00</td><td>62.93</td><td>32.22</td><td>8.63 57.86 100 45 Peak</td></tr><tr><td>3</td><td>2782.50</td><td>43.67</td><td>-10.33</td><td>54.00</td><td>60.68</td><td>32.22</td><td>8.63 57.86 100 45 Average</td></tr><tr><td>4</td><td>3718.00</td><td>42.52</td><td>-31.48</td><td>74.00</td><td>57.81</td><td>33.10</td><td>9.61 58.00</td></tr><tr><td>5</td><td>8347.50</td><td>48.99</td><td>-25.01</td><td>74.00</td><td>60.09</td><td>35.00</td><td>12.07 58.97 100 195 Peak</td></tr><tr><td>6</td><td>8347.50</td><td>46.74</td><td>-7.26</td><td>54.00</td><td>57.84</td><td>35.00</td><td>12.07 58.97 100 195 Average</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	1855.00	43.26	---	---	63.25	31.83	6.88 57.90	2	2782.50	45.92	-28.08	74.00	62.93	32.22	8.63 57.86 100 45 Peak	3	2782.50	43.67	-10.33	54.00	60.68	32.22	8.63 57.86 100 45 Average	4	3718.00	42.52	-31.48	74.00	57.81	33.10	9.61 58.00	5	8347.50	48.99	-25.01	74.00	60.09	35.00	12.07 58.97 100 195 Peak	6	8347.50	46.74	-7.26	54.00	57.84	35.00	12.07 58.97 100 195 Average
		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																										
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FSK 50Kbps FHSS 50Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																																																																																																	
ANT	FSK 50Kbps FHSS 50Kbps CH01 902.2MHz																																																																																																																																																																																	
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Peak	Date: 1 <table><tr><th></th><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></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>128.84</td><td>20.74</td><td>-22.76</td><td>43.50</td><td>34.83</td><td>16.45</td><td>1.16</td><td>31.70</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>261.83</td><td>24.49</td><td>-21.51</td><td>46.00</td><td>35.69</td><td>18.69</td><td>1.69</td><td>31.58</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>870.82</td><td>44.92</td><td>---</td><td>---</td><td>43.23</td><td>29.00</td><td>3.09</td><td>30.40</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>902.20</td><td>118.68</td><td>---</td><td>---</td><td>117.39</td><td>29.13</td><td>3.16</td><td>31.00</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>914.64</td><td>54.72</td><td>---</td><td>---</td><td>53.02</td><td>29.49</td><td>3.18</td><td>30.97</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>921.43</td><td>48.01</td><td>---</td><td>---</td><td>46.09</td><td>29.69</td><td>3.19</td><td>30.96</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>934.04</td><td>47.97</td><td>---</td><td>---</td><td>45.63</td><td>30.06</td><td>3.21</td><td>30.93</td><td>---</td><td>Peak</td></tr></table>		Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	128.84	20.74	-22.76	43.50	34.83	16.45	1.16	31.70	---	Peak	2	261.83	24.49	-21.51	46.00	35.69	18.69	1.69	31.58	---	Peak	3	870.82	44.92	---	---	43.23	29.00	3.09	30.40	---	Peak	4	902.20	118.68	---	---	117.39	29.13	3.16	31.00	---	Peak	5	914.64	54.72	---	---	53.02	29.49	3.18	30.97	---	Peak	6	921.43	48.01	---	---	46.09	29.69	3.19	30.96	---	Peak	7	934.04	47.97	---	---	45.63	30.06	3.21	30.93	---	Peak	Date: 2 <table><tr><th></th><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></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>136.78</td><td>21.88</td><td>-22.42</td><td>43.50</td><td>35.00</td><td>16.38</td><td>1.20</td><td>31.70</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>260.86</td><td>24.53</td><td>-21.47</td><td>46.00</td><td>35.76</td><td>18.67</td><td>1.68</td><td>31.58</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>902.20</td><td>112.78</td><td>66.78</td><td>46.00</td><td>111.49</td><td>29.13</td><td>3.16</td><td>31.00</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>914.64</td><td>48.72</td><td>---</td><td>---</td><td>47.02</td><td>29.49</td><td>3.18</td><td>30.97</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>934.04</td><td>44.75</td><td>---</td><td>---</td><td>42.41</td><td>30.06</td><td>3.21</td><td>30.93</td><td>---</td><td>Peak</td></tr></table>		Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	136.78	21.88	-22.42	43.50	35.00	16.38	1.20	31.70	---	Peak	2	260.86	24.53	-21.47	46.00	35.76	18.67	1.68	31.58	---	Peak	3	902.20	112.78	66.78	46.00	111.49	29.13	3.16	31.00	---	Peak	4	914.64	48.72	---	---	47.02	29.49	3.18	30.97	---	Peak	5	934.04	44.75	---	---	42.41	30.06	3.21	30.93	---	Peak
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LoRa	LF @ 3m																																																																	
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Peak	<table><tr><th></th><th>Over Freq</th><th>Limit Level</th><th>ReadAntenna Level</th><th>Cable Preamp Loss Factor</th><th>A/Pos dB</th><th>T/Pos dB</th><th>Remark</th></tr><tr><td>1</td><td>132.820</td><td>21.85</td><td>-21.65</td><td>43.50</td><td>36.68</td><td>17.84</td><td>2.23 34.90 --- --- Peak</td></tr><tr><td>2</td><td>276.380</td><td>23.19</td><td>-22.81</td><td>46.00</td><td>36.20</td><td>18.62</td><td>3.12 34.75 --- --- Peak</td></tr><tr><td>3</td><td>915.000</td><td>118.53</td><td>---</td><td>---</td><td>118.74</td><td>29.34</td><td>4.45 34.00 --- --- Peak</td></tr></table>		Over Freq	Limit Level	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos dB	T/Pos dB	Remark	1	132.820	21.85	-21.65	43.50	36.68	17.84	2.23 34.90 --- --- Peak	2	276.380	23.19	-22.81	46.00	36.20	18.62	3.12 34.75 --- --- Peak	3	915.000	118.53	---	---	118.74	29.34	4.45 34.00 --- --- Peak	<table><tr><th></th><th>Over Freq</th><th>Limit Level</th><th>ReadAntenna Level</th><th>Cable Preamp Loss Factor</th><th>A/Pos dB</th><th>T/Pos dB</th><th>Remark</th></tr><tr><td>1</td><td>135.730</td><td>22.16</td><td>-21.34</td><td>43.50</td><td>36.80</td><td>18.01</td><td>2.25 34.90 --- --- Peak</td></tr><tr><td>2</td><td>282.200</td><td>22.71</td><td>-23.29</td><td>46.00</td><td>35.51</td><td>18.80</td><td>3.14 34.74 --- --- Peak</td></tr><tr><td>3</td><td>915.000</td><td>112.78</td><td>---</td><td>---</td><td>112.99</td><td>29.34</td><td>4.45 34.00 --- --- Peak</td></tr></table>		Over Freq	Limit Level	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos dB	T/Pos dB	Remark	1	135.730	22.16	-21.34	43.50	36.80	18.01	2.25 34.90 --- --- Peak	2	282.200	22.71	-23.29	46.00	35.51	18.80	3.14 34.74 --- --- Peak	3	915.000	112.78	---	---	112.99	29.34	4.45 34.00 --- --- Peak
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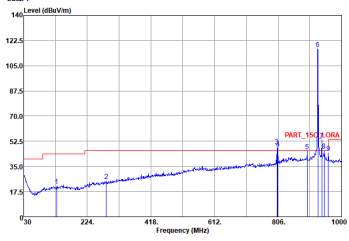
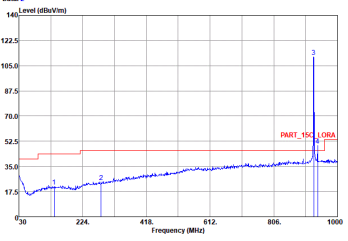
FSK 150Kbps FHSS 150Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																																																													
ANT	FSK 150Kbps FHSS 150Kbps CH01 902.4MHz																																																																																																																																													
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LoRa	LF @ 3m										
ANT	FSK 150Kbps FHSS 150Kbps CH33 915.2MHz										



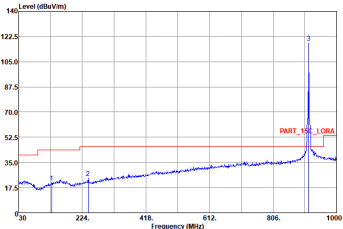
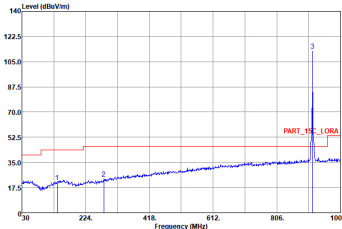
LoRa	LF @ 3m	
ANT	FSK 150Kbps FHSS 150Kbps CH64 927.6MHz	
	Horizontal	Vertical
Peak	Date: 1  138.88 21.32 -22.18 43.58 35.37 16.48 1.17 31.70 --- --- Peak 2 282.28 24.81 -21.19 46.00 35.64 18.96 1.75 31.54 --- --- Peak 3 883.09 49.15 --- --- 48.76 28.39 2.95 38.94 --- --- Peak 4 895.83 47.68 --- --- 47.14 28.41 2.95 38.90 --- --- Peak 5 895.24 45.65 --- --- 44.34 29.86 3.15 38.90 --- --- Peak 6 927.68 116.69 --- --- 114.56 29.87 3.28 38.94 --- --- Peak 7 939.86 53.49 --- --- 50.87 30.23 3.22 38.92 --- --- Peak 8 946.65 46.21 --- --- 43.47 30.42 3.23 38.91 --- --- Peak 9 959.26 44.48 --- --- 41.58 30.47 3.25 38.90 --- --- Peak	Date: 2  137.67 21.24 -22.26 43.58 35.14 16.68 1.20 31.70 --- --- Peak 2 280.26 24.20 -21.80 46.00 35.87 18.93 1.74 31.54 --- --- Peak 3 927.68 111.18 --- --- 109.05 29.87 3.28 38.94 --- --- Peak 4 939.86 49.35 --- --- 46.82 30.23 3.22 38.92 --- --- Peak



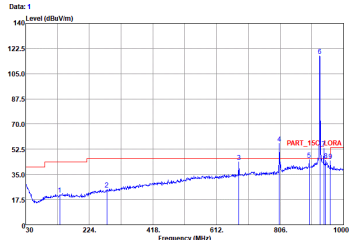
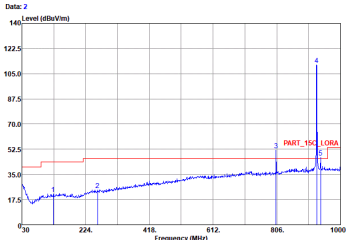
FSK 250Kbps FHSS 250Kbps (LF @ 3m)

LoRa	LF @ 3m																																																																																																																																																							
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1	134.76	21.18	-22.32	43.50	35.14	16.55	1.19	31.70	--- Peak																																																																																																																																															
2	270.56	24.70	-21.30	46.00	35.75	18.80	1.71	31.56	--- Peak																																																																																																																																															
3	902.50	112.47	---	111.17	29.14	3.16	31.00	---	--- Peak																																																																																																																																															
4	914.64	48.23	---	46.53	29.49	3.18	30.97	---	--- Peak																																																																																																																																															
5	935.01	42.65	---	40.28	30.09	3.21	30.93	---	--- Peak																																																																																																																																															



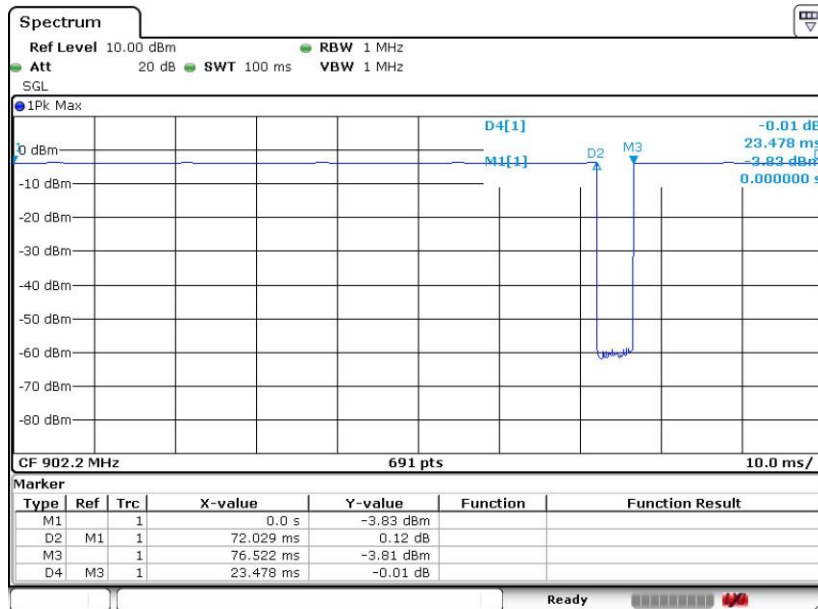
LoRa	LF @ 3m																																																																							
ANT	FSK 250Kbps FHSS 250Kbps CH26 915MHz																																																																							
	Horizontal																																																																							
Peak																																																																								
	<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><th></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>cm</th><th>deg</th></tr><tr><td>1</td><td>130.880</td><td>21.04</td><td>-22.46</td><td>43.50</td><td>35.99</td><td>17.73</td><td>2.22</td><td>34.90</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>241.460</td><td>23.99</td><td>-22.01</td><td>46.00</td><td>38.38</td><td>17.47</td><td>2.96</td><td>34.82</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>915.000</td><td>118.35</td><td>---</td><td>---</td><td>118.56</td><td>29.34</td><td>4.45</td><td>34.00</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	130.880	21.04	-22.46	43.50	35.99	17.73	2.22	34.90	---	---	Peak	2	241.460	23.99	-22.01	46.00	38.38	17.47	2.96	34.82	---	---	Peak	3	915.000	118.35	---	---	118.56	29.34	4.45	34.00	---	---	Peak
		Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																
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	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																	
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LoRa	LF @ 3m																																																																																																																																																																																											
ANT	FSK 250Kbps FHSS 250Kbps CH51 927.5MHz																																																																																																																																																																																											
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	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																																				
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Appendix D. Duty Cycle Plots

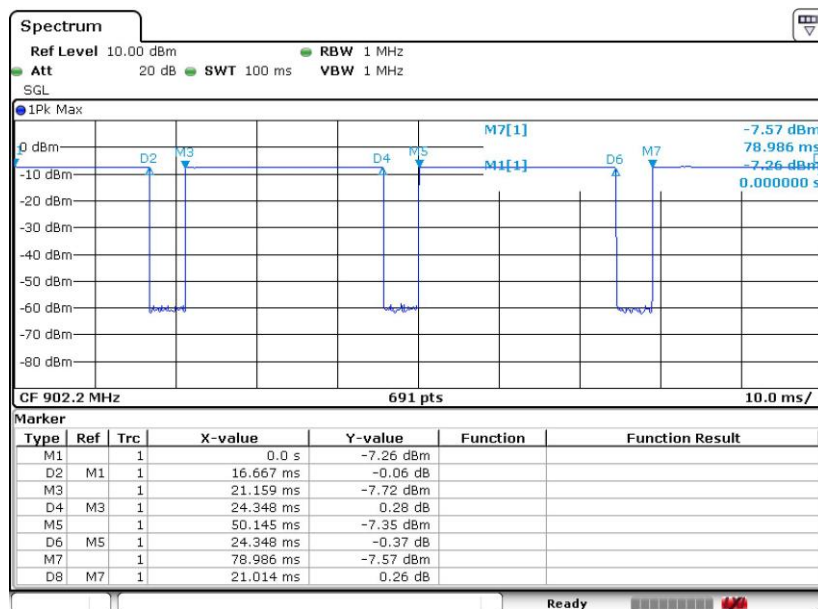
FSK(FHSS)50kbps on time Plot



Note:

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

FSK(FHSS)150kbps on time Plot

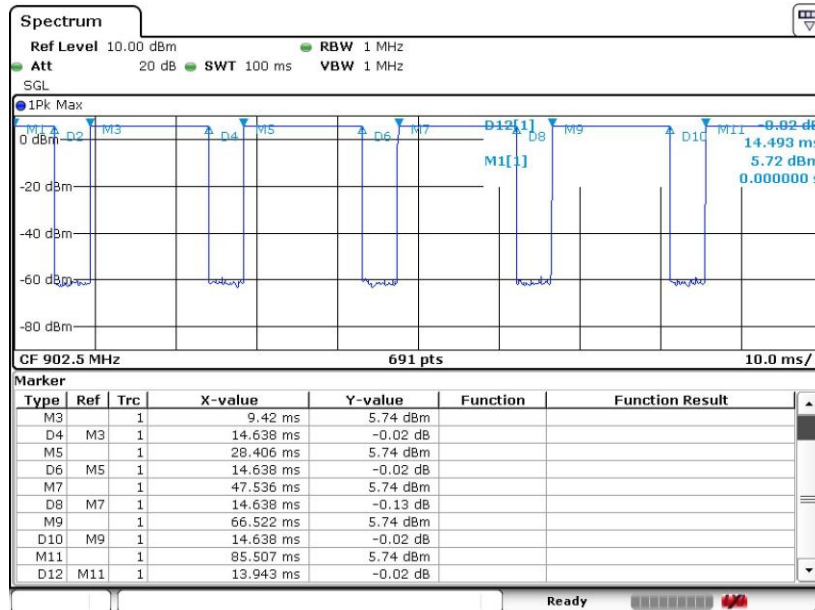


Note:

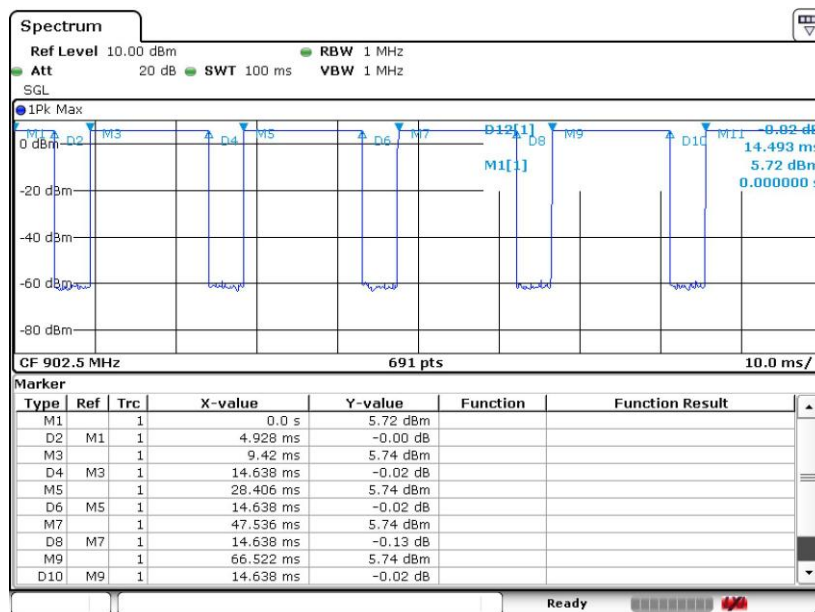
1. Worst case Duty cycle = on time/100 milliseconds = 86.41 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -1.27 \text{ dB}$



FSK(FHSS)250kbps on time Plot 1



FSK(FHSS)250kbps on time Plot 2



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 77.20 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -2.25 \text{ dB}$