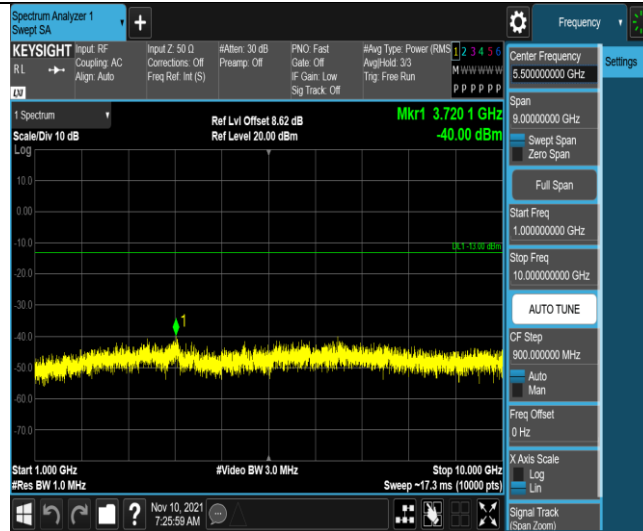
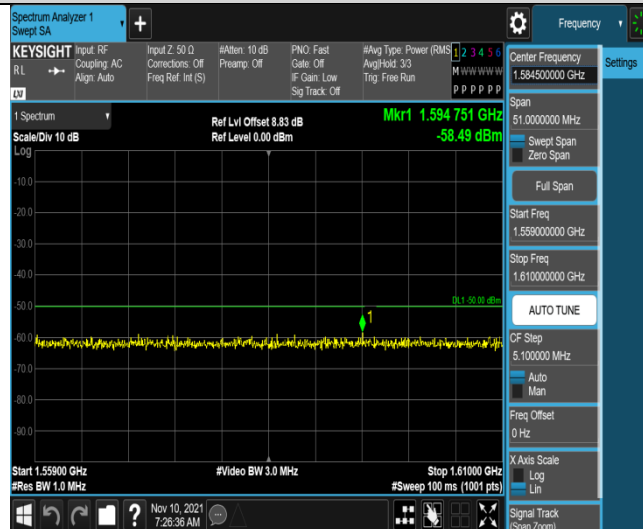
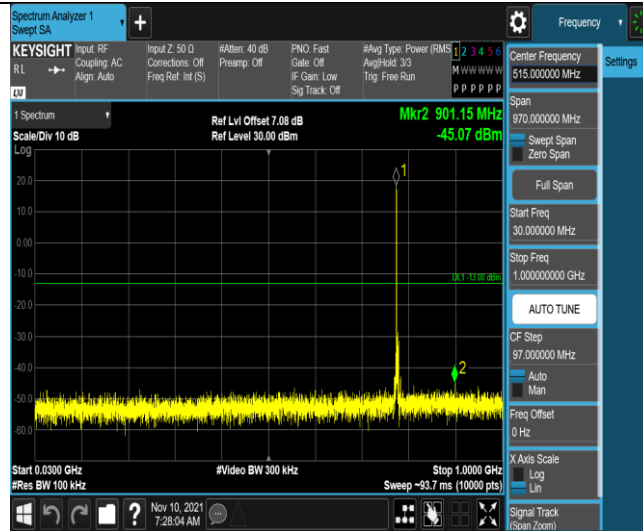




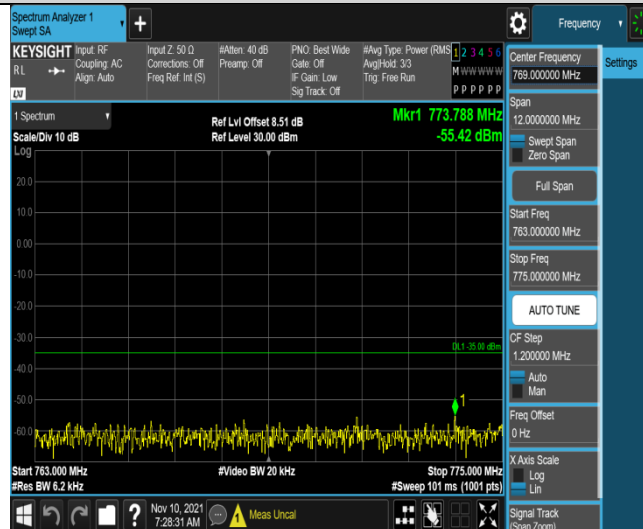
Band13-5MHz-16QAM-23205-1RB#0-Range5:1559~1610MHz



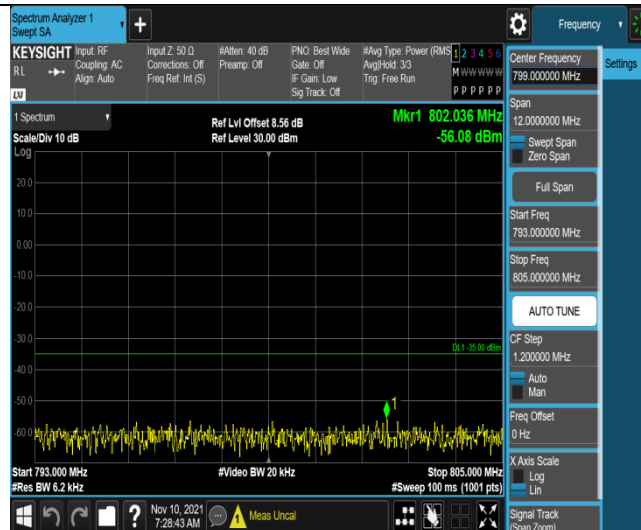
Band13-5MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



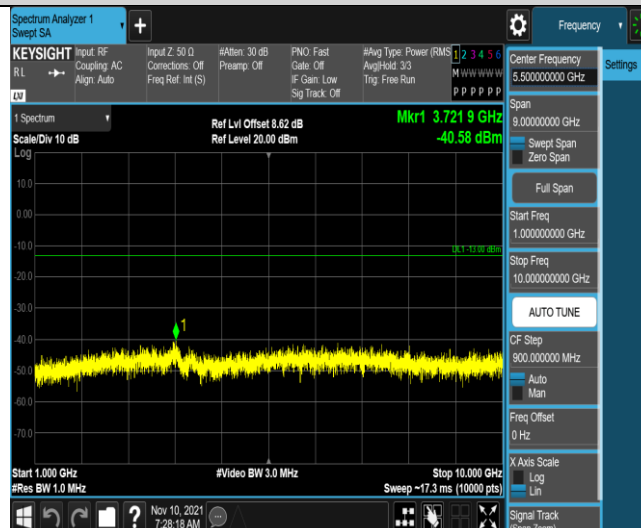
Band13-5MHz-16QAM-23230-1RB#0-Range3:763~775MHz



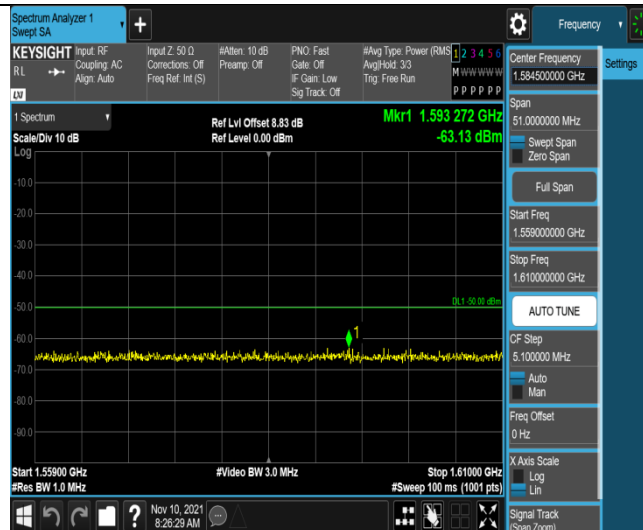
Band13-5MHz-16QAM-23230-1RB#0-Range4:793~805MHz



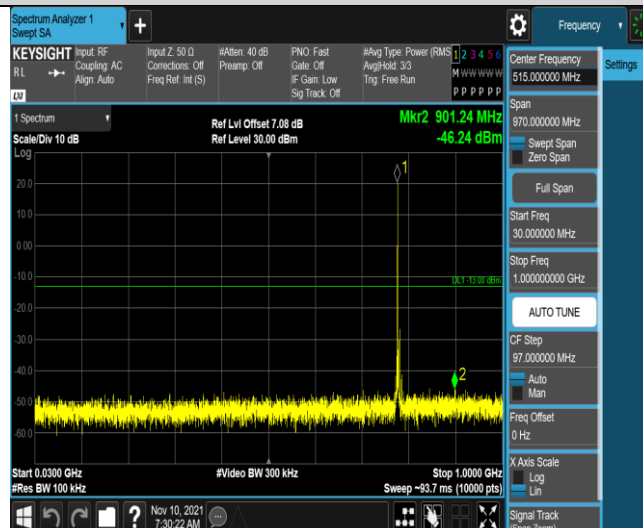
Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



Band13-5MHz-16QAM-23255-1RB#0-Range1:30~1000MHz



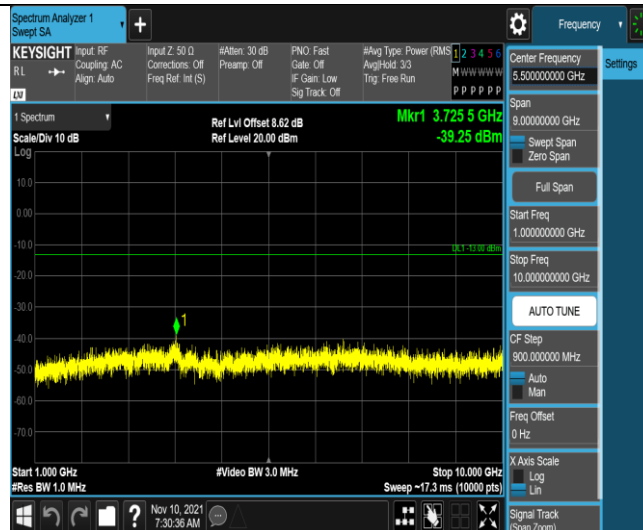
Band13-5MHz-16QAM-23255-1RB#0-Range3:763~775MHz



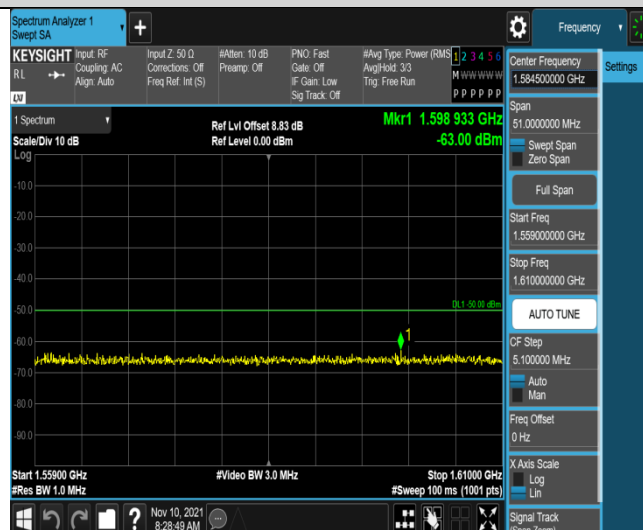
Band13-5MHz-16QAM-23255-1RB#0-Range4:793~805MHz



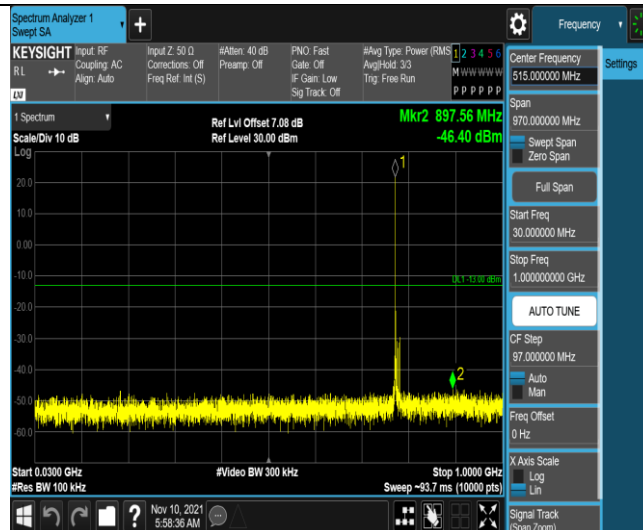
Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23255-1RB#0-Range5:1559~1610MHz



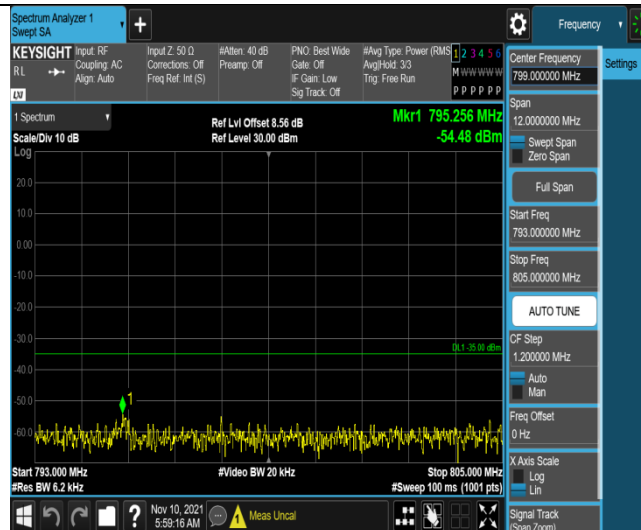
Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



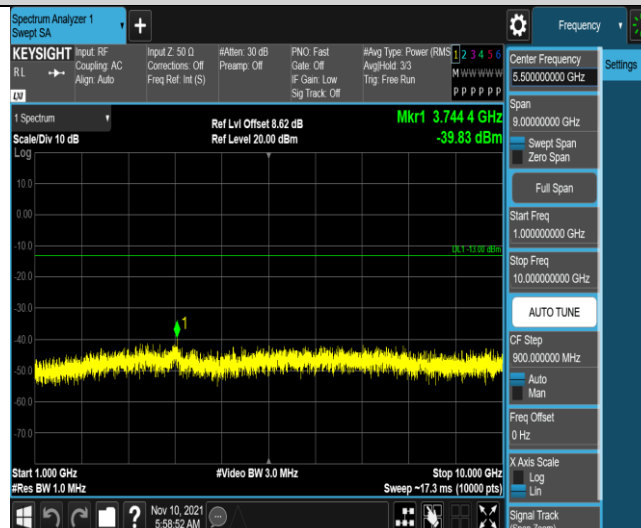
Band13-10MHz-QPSK-23230-1RB#0-Range3:763~775MHz



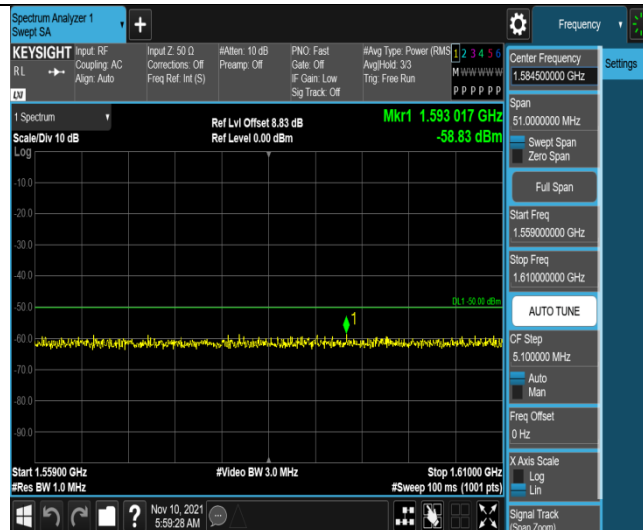
Band13-10MHz-QPSK-23230-1RB#0-Range4:793~805MHz



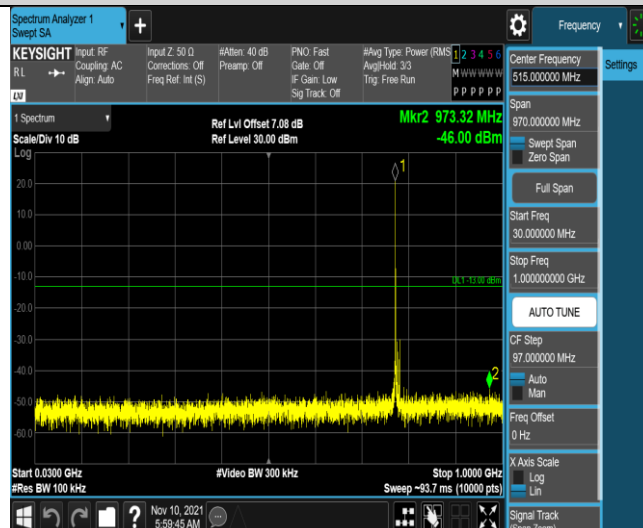
Band13-10MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



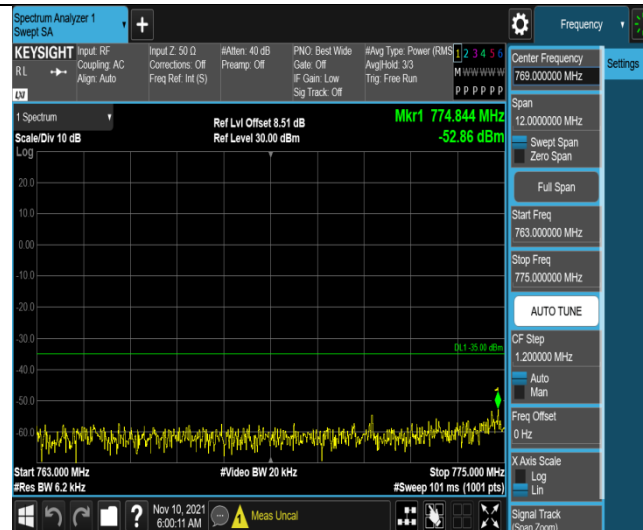
Band13-10MHz-QPSK-23230-1RB#0-Range5:1559~1610MHz



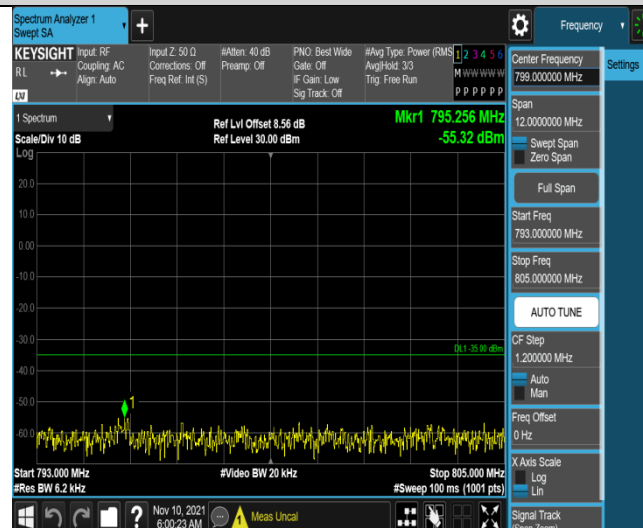
Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



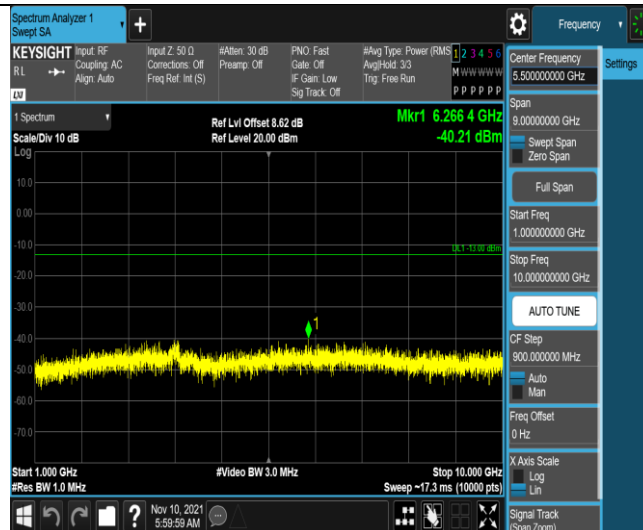
Band13-10MHz-16QAM-23230-1RB#0-Range3:763~775MHz



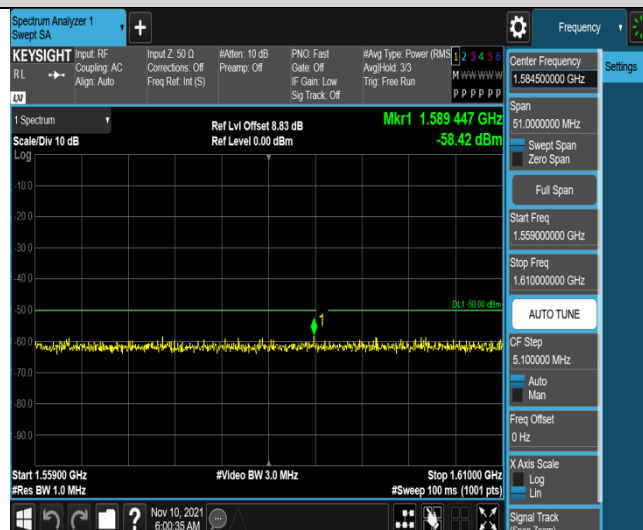
Band13-10MHz-16QAM-23230-1RB#0-Range4:793~805MHz



Band13-10MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



Band13-10MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



Appendix G Field Strength of Spurious Radiation

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. The emissions were very low against the limit in the frequency range 9kHz to 30MHz and 18 GHz ~ 20 GHz.

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

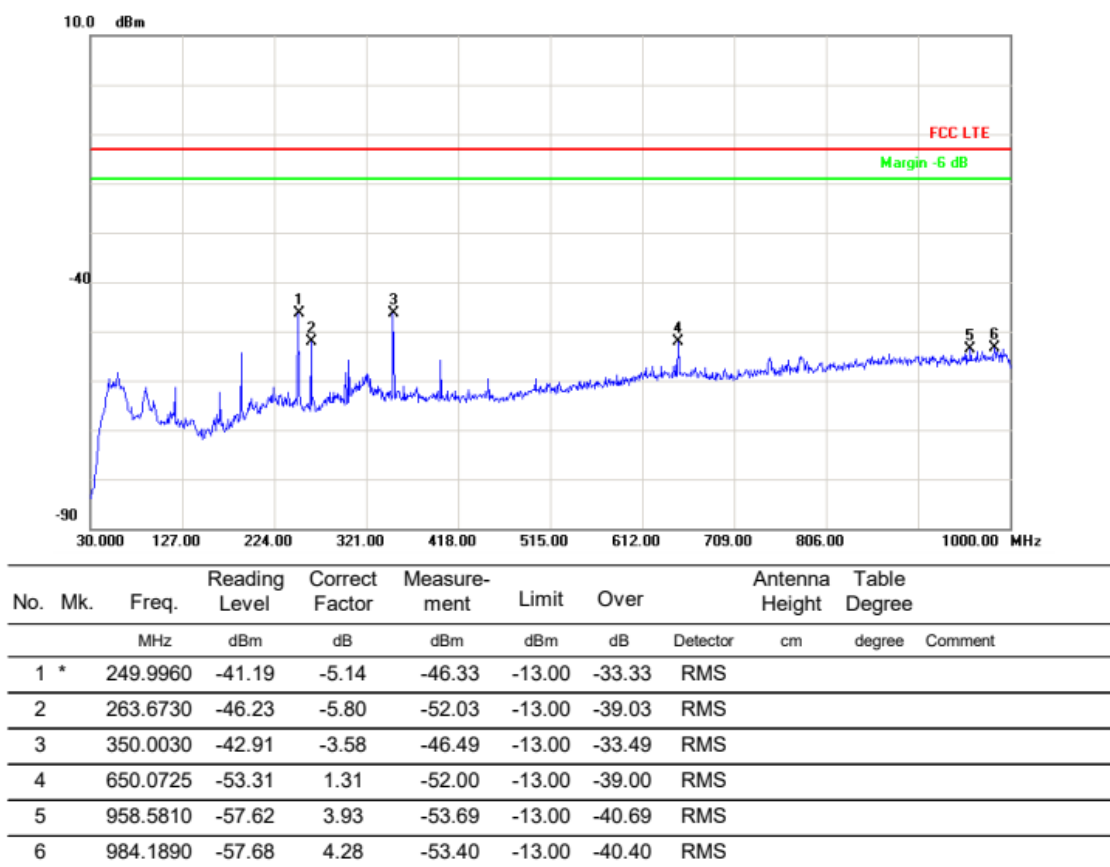
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

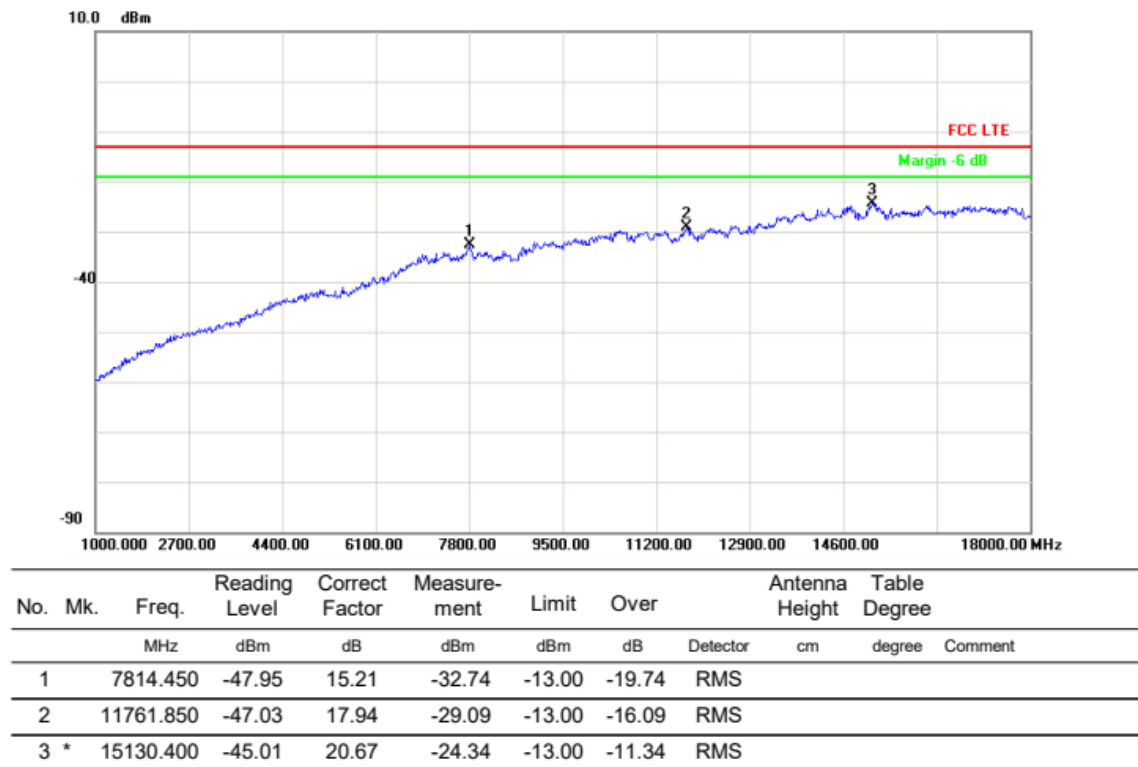
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Test Plots

Test Band = BAND13

Worst Test Bandwidth = 10MHz





Appendix H: Frequency Stability

Test Result

Frequency Error vs. Voltage:

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-1.49	-0.001911	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-2.63	-0.003374	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-2.09	-0.002681	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	1.32	0.001688	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	-2.79	-0.003568	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-2.81	-0.003593	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-1.78	-0.002269	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	-3.55	-0.004525	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	2.67	0.003403	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-2.90	-0.003720	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-3.71	-0.004759	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-5.01	-0.006427	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-1.07	-0.001368	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	3.28	0.004194	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	-1.38	-0.001765	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	2.80	0.003569	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	-1.00	-0.001275	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	-3.86	-0.004920	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-2.85	-0.003645	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-2.74	-0.003504	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	2.24	0.002864	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	1.64	0.002097	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	1.72	0.002199	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-2.66	-0.003402	±2.5	PASS

Frequency Error vs. Temperature:

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-2.68	-0.003438	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-2.93	-0.003759	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-3.28	-0.004208	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	2.72	0.003489	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	40	-2.27	-0.002912	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	-4.47	-0.005734	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	1.44	0.001841	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-1.72	-0.002199	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	3.22	0.004118	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	-2.96	-0.003785	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	-2.58	-0.003299	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	1.59	0.002033	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	2.68	0.003416	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-2.36	-0.003008	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-3.08	-0.003926	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-1.68	-0.002141	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	-2.26	-0.002881	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	-1.47	-0.001874	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-3.07	-0.003938	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-3.79	-0.004862	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-3.86	-0.004952	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	-4.47	-0.005734	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	-2.23	-0.002861	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	2.72	0.003489	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-2.73	-0.003491	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-1.64	-0.002097	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-1.65	-0.002110	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	1.59	0.002033	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	-2.07	-0.002647	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	-2.96	-0.003785	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-2.55	-0.003250	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	2.15	0.002741	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	1.17	0.001491	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-1.47	-0.001874	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	1.43	0.001823	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-1.68	-0.002141	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-1.68	-0.002148	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-3.76	-0.004808	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-2.62	-0.003350	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.18	-0.002788	±2.5	PASS

Total Quality. Assured.

Band13	10MHz	QPSK	23230	50RB#0	NV	40	3.20	0.004092	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-3.40	-0.004348	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	1.83	0.002340	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	1.75	0.002238	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-3.62	-0.004629	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-3.40	-0.004348	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	1.41	0.001803	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-3.76	-0.004808	±2.5	PASS

END