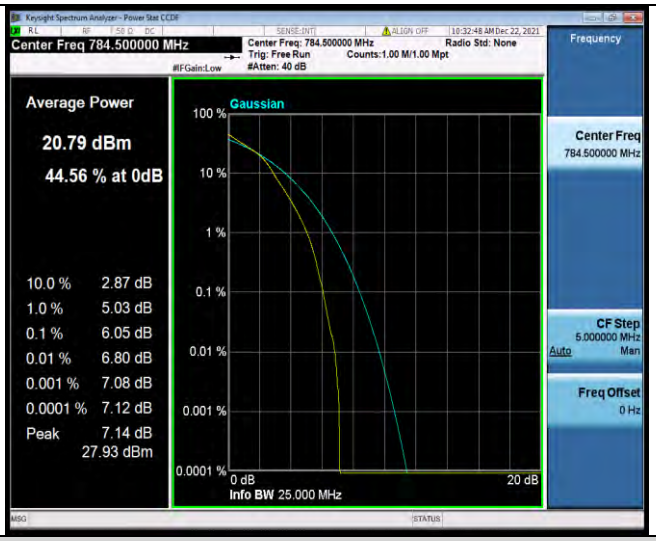
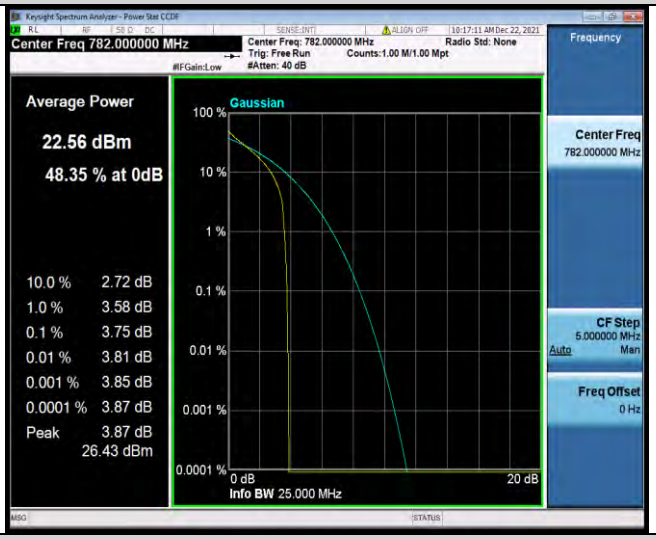
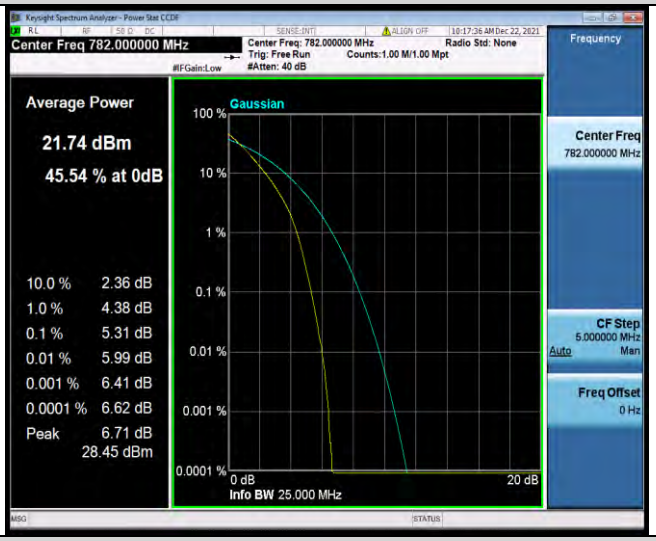


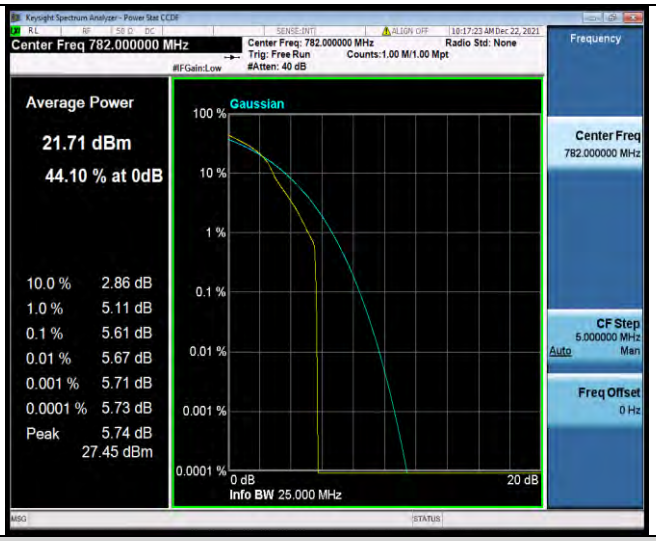
Band13-10MHz-QPSK-23230-1RB#0



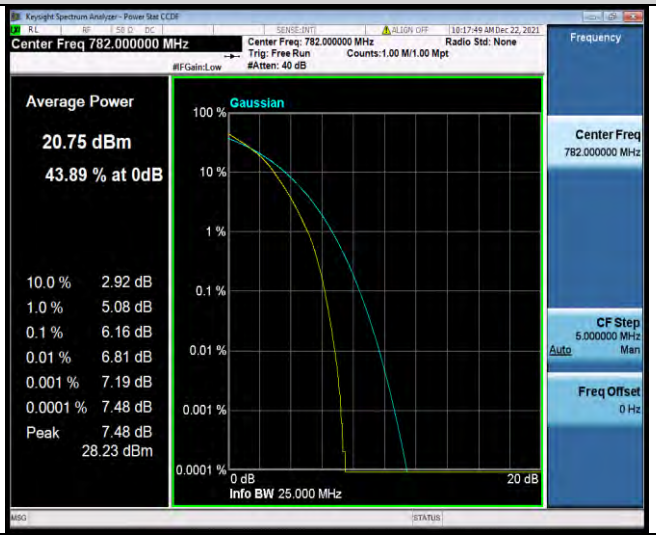
Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-50RB#0



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

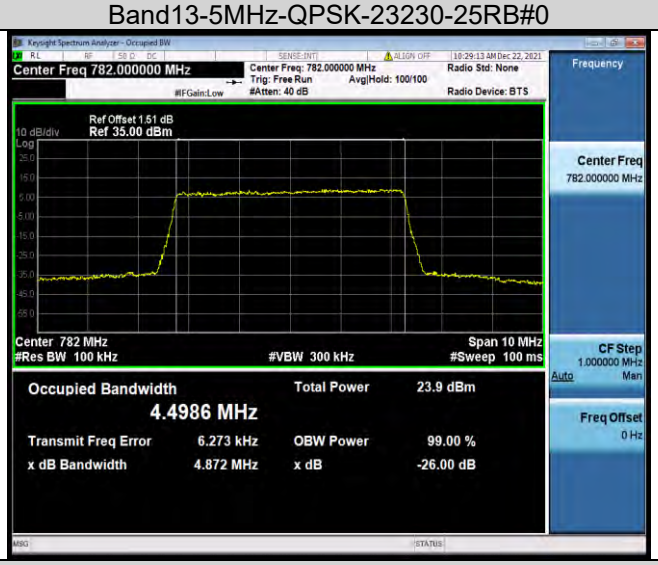
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5096	4.857	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4986	4.872	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4864	4.836	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5107	4.847	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4986	4.840	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4884	4.859	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9560	9.506	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9581	9.486	PASS

Test Graphs

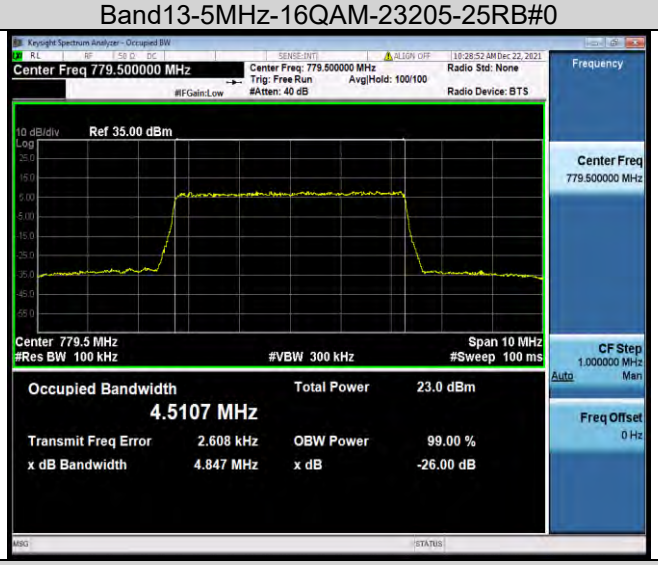
Band13-5MHz-QPSK-23205-25RB#0

Band13-5MHz-QPSK-23230-25RB#0



Band13-5MHz-QPSK-23255-25RB#0

Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23230-25RB#0

Band13-5MHz-16QAM-23255-25RB#0

Band13-10MHz-QPSK-23230-50RB#0

Band13-10MHz-16QAM-23230-50RB#0

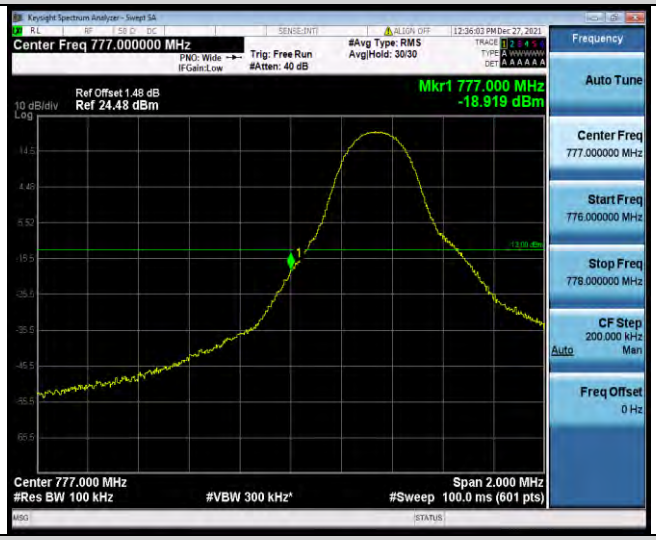
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-18.92	PASS
Band13	5MHz	QPSK	23205	25RB#0	-28.36	PASS
Band13	5MHz	QPSK	23255	1RB#24	-19.22	PASS
Band13	5MHz	QPSK	23255	25RB#0	-29.44	PASS
Band13	5MHz	16QAM	23205	1RB#0	-20.78	PASS
Band13	5MHz	16QAM	23205	25RB#0	-29.25	PASS
Band13	5MHz	16QAM	23255	1RB#24	-20.57	PASS
Band13	5MHz	16QAM	23255	25RB#0	-30.48	PASS
Band13	10MHz	QPSK	23230	1RB#0	-26.85,-49.78	PASS
Band13	10MHz	QPSK	23230	1RB#49	-49.71,-30.21	PASS
Band13	10MHz	QPSK	23230	50RB#0	-31.53,-33.20	PASS
Band13	10MHz	16QAM	23230	1RB#0	-28.72,-55.20	PASS
Band13	10MHz	16QAM	23230	1RB#49	-55.64,-31.69	PASS
Band13	10MHz	16QAM	23230	50RB#0	-32.30,-33.74	PASS

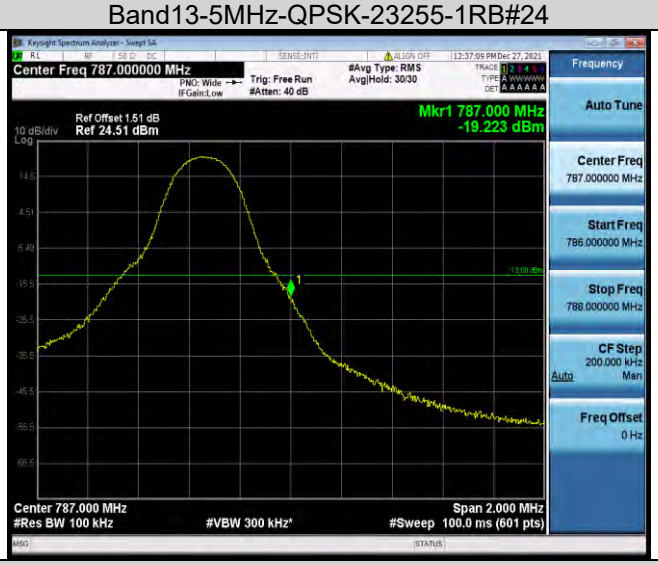
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0

Band13-5MHz-QPSK-23255-1RB#24

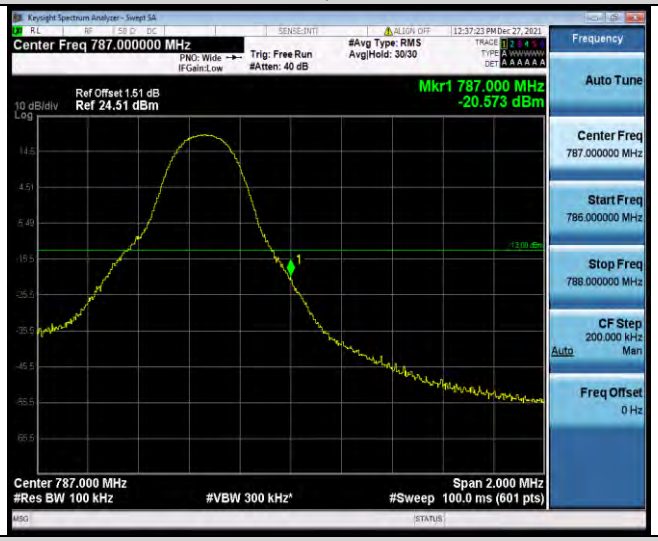


Band13-5MHz-QPSK-23255-25RB#0

Band13-5MHz-16QAM-23205-1RB#0

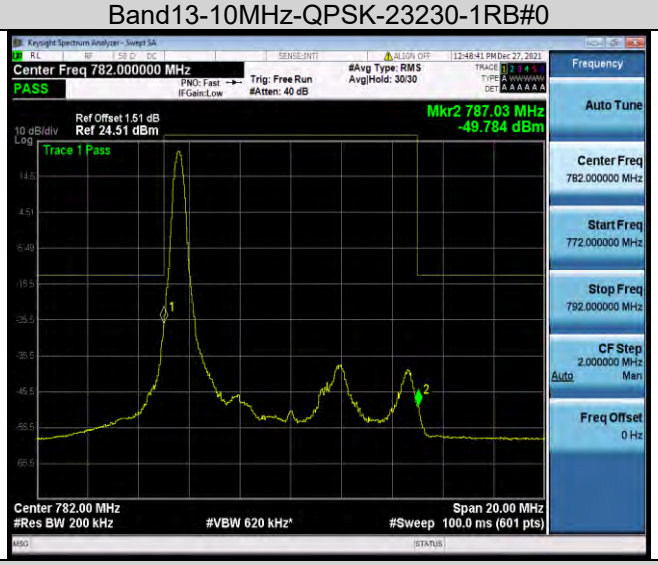
Band13-5MHz-16QAM-23205-25RB#0

Band13-5MHz-16QAM-23255-1RB#24



Band13-5MHz-16QAM-23255-25RB#0

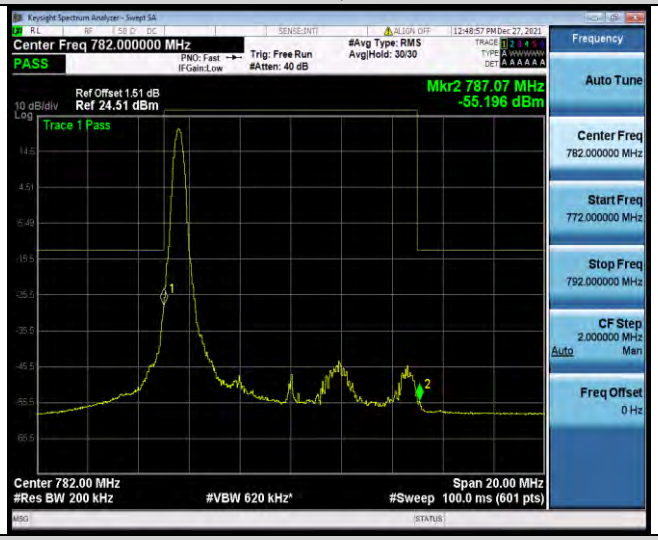
Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49

Band13-10MHz-QPSK-23230-50RB#0

Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-1RB#49

Band13-10MHz-16QAM-23230-50RB#0

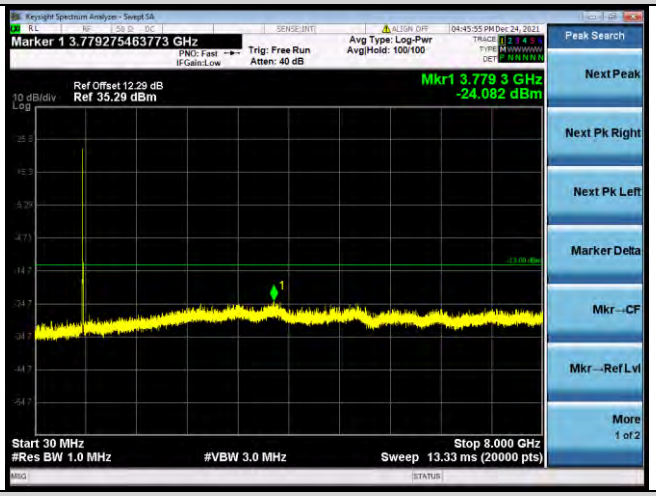
Keysight Spectrum Analyzer - Swept SA
Center Freq 782.000000 MHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
12:50:32 PM Dec 27, 2021
Ref Offset 1.51 dB
10 dB/div
Ref 24.51 dBm
Log
Trace 1 Pass
Mkr2 787.03 MHz
-33.744 dBm
Center 782.00 MHz
#Res BW 200 kHz
#VBW 620 kHz*
Span 20.00 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
782.000000 MHz
Start Freq
772.000000 MHz
Stop Freq
792.000000 MHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.082	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.691	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.621	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.615	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.516	PASS
Band13	5MHz	16QAM	23255	1RB#0	24.225	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.067	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.598	PASS

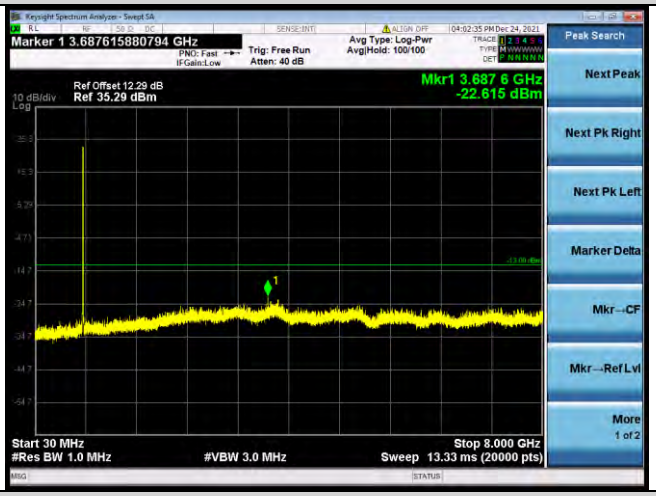
Band13-5MHz-QPSK-23205



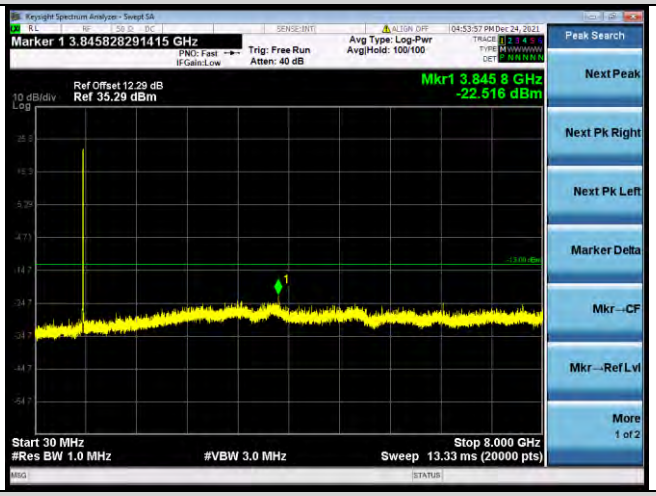
Band13-5MHz-16QAM-23205

Band13-5MHz-QPSK-23230

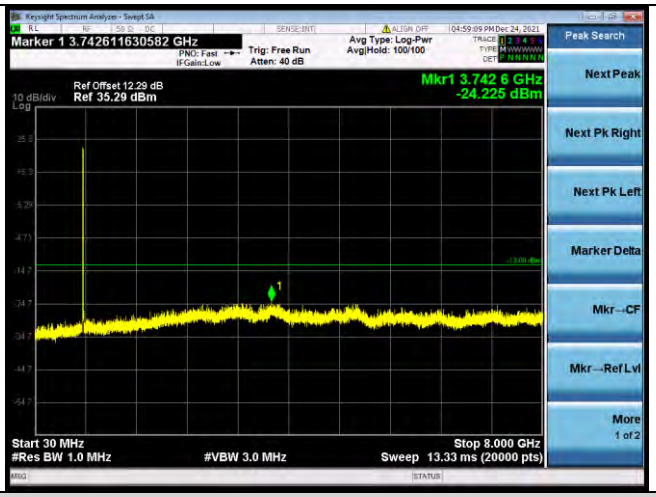
Band13-5MHz-16QAM-23230



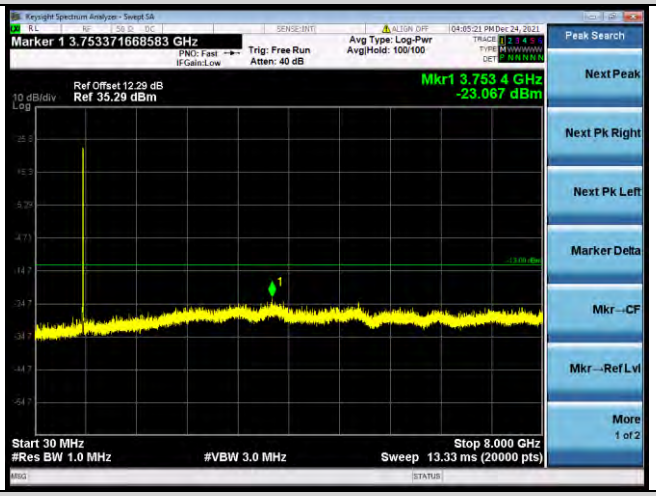
Band13-5MHz-QPSK-23255



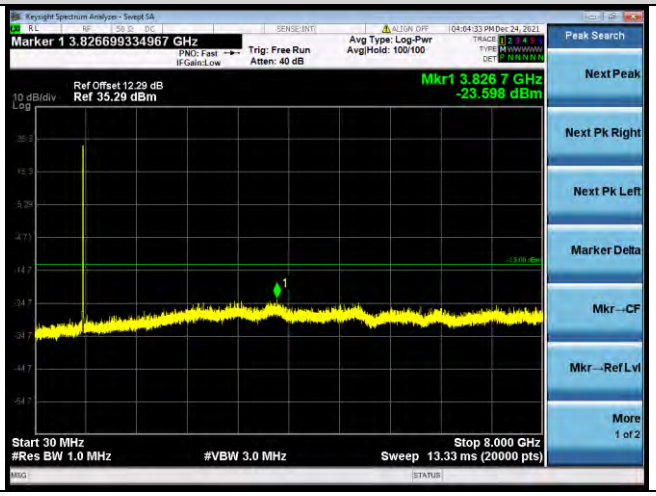
Band13-5MHz-16QAM-23255



Band13-10MHz-QPSK-23230



Band13-10MHz-16QAM-23230



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-1.50	-0.001924	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-2.20	-0.002822	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-2.86	-0.003669	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-0.94	-0.001202	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	4.61	0.005895	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	4.75	0.006074	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	2.22	0.002830	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	-3.98	-0.005073	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-6.38	-0.008133	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-6.15	-0.007890	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-2.15	-0.002758	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-6.91	-0.008865	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-4.96	-0.006343	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-2.65	-0.003389	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	0.80	0.001023	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	6.27	0.007992	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	6.67	0.008502	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	-3.13	-0.003990	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.66	0.002123	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	5.74	0.007340	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-6.54	-0.008363	±2.5	PASS

Band13	10MHz	16QAM	23230	50RB#0	VL	NT	3.39	0.004335	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-8.04	-0.010281	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	1.97	0.002519	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	2.09	0.002681	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	3.86	0.004952	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	3.25	0.004169	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	2.40	0.003079	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-2.29	-0.002938	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	5.82	0.007442	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-2.09	-0.002673	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-1.90	-0.002430	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	4.92	0.006292	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-1.87	-0.002391	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	4.23	0.005392	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	6.79	0.008655	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	-1.86	-0.002371	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	3.71	0.004729	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-4.46	-0.005685	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-7.30	-0.009365	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-4.75	-0.006094	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-2.76	-0.003541	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	3.62	0.004644	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-4.63	-0.005940	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	1.89	0.002417	±2.5	PASS

Band13	5MHz	16QAM	23230	25RB#0	NV	-20	3.43	0.004386	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-2.22	-0.002839	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	4.36	0.005575	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	1.53	0.001957	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	2.06	0.002626	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	-3.82	-0.004869	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-1.50	-0.001912	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	1.09	0.001389	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	4.79	0.006106	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-6.84	-0.008747	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-4.53	-0.005793	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-6.41	-0.008197	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-3.79	-0.004847	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-3.73	-0.004770	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-1.93	-0.002468	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	5.56	0.007110	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	2.29	0.002928	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-2.17	-0.002775	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	7.20	0.009207	±2.5	PASS

---END---