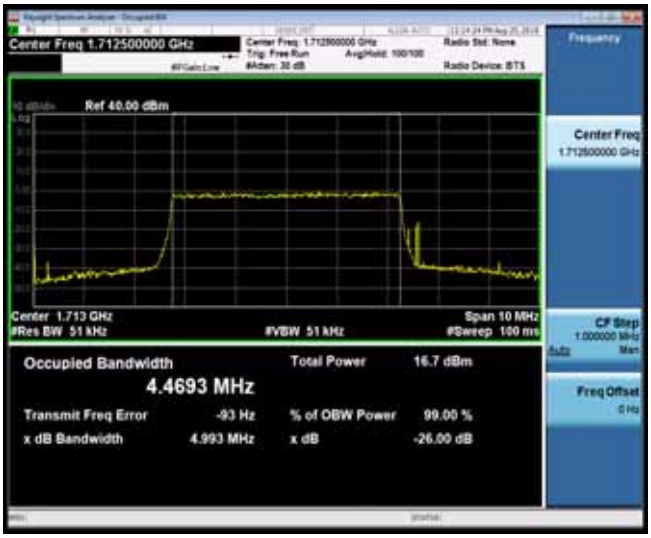
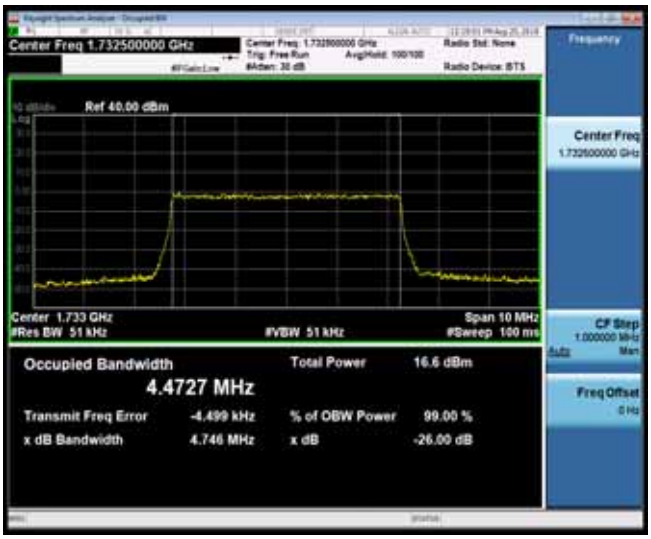
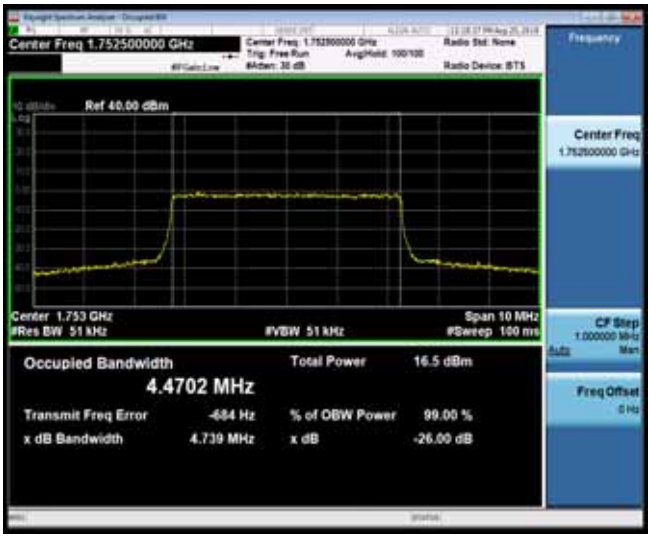
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

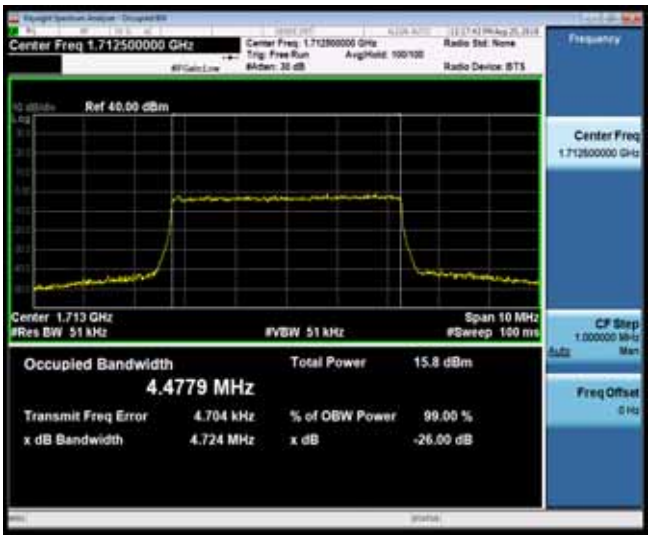
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	5MHz	QPSK	19975	25RB#0	4.4693	4.993	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4727	4.746	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.4702	4.739	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4779	4.724	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.4786	4.732	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.4742	4.724	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9193	9.310	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9433	9.357	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9103	9.327	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9093	9.299	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9301	9.336	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9138	9.286	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.369	13.76	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.410	13.90	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.365	13.84	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.370	13.83	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.426	13.93	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.388	13.86	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.834	18.36	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	18.45	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.810	18.34	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.828	18.33	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.891	18.43	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.809	18.35	PASS

Test Graphs

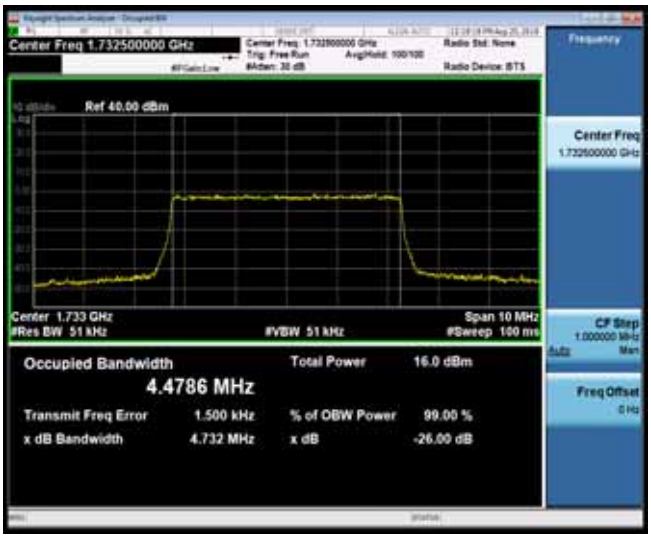
Band4_5MHz_QPSK_19975_25RB#0

Band4_5MHz_QPSK_20175_25RB#0

Band4_5MHz_QPSK_20375_25RB#0



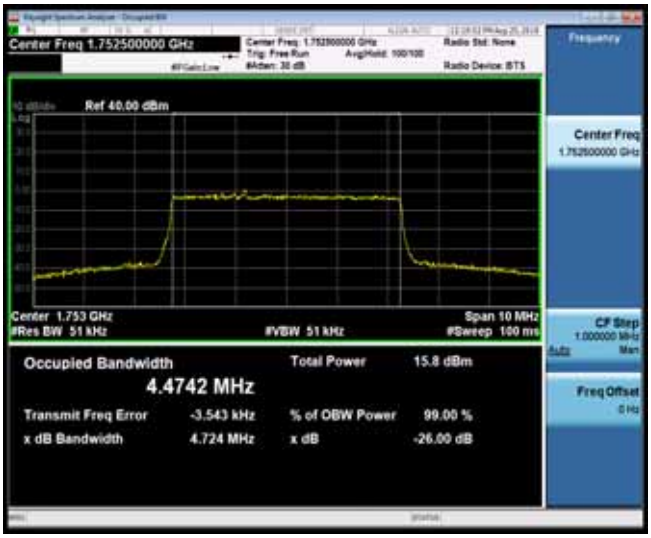
Band4_5MHz_16QAM_19975_25RB#0



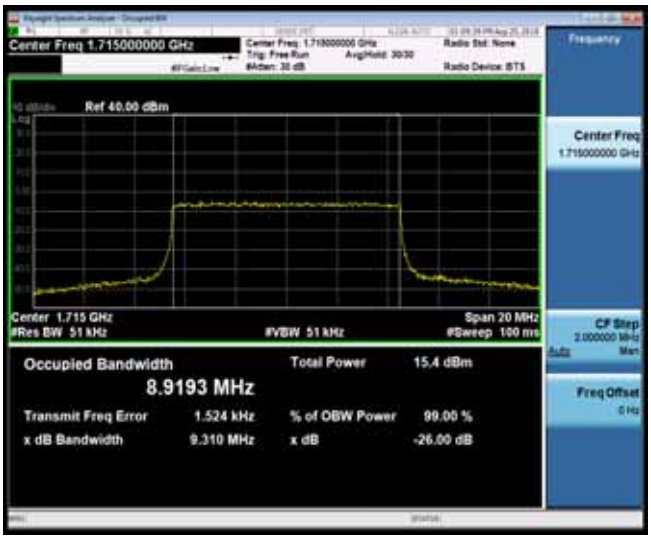
Band4_5MHz_16QAM_20175_25RB#0



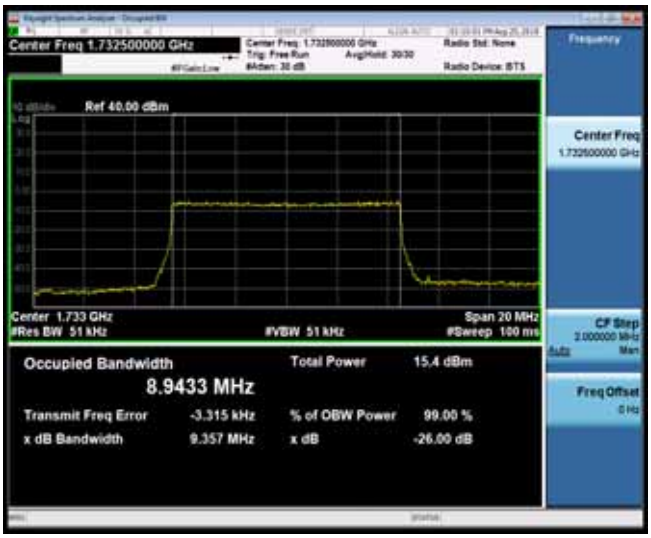
Band4_5MHz_16QAM_20375_25RB#0



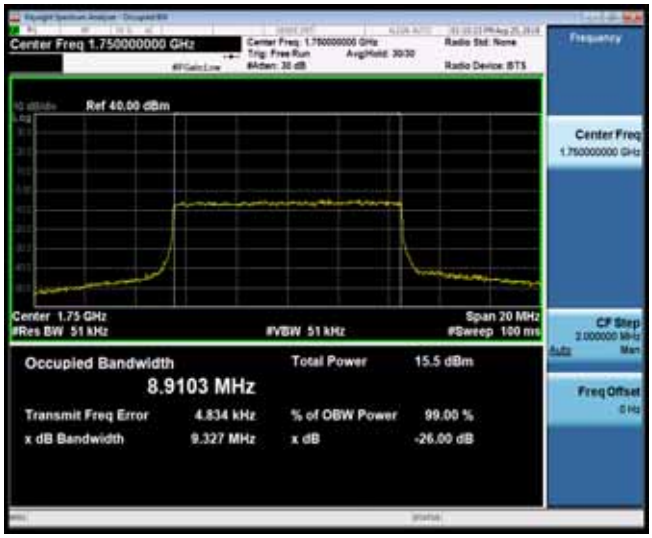
Band4_10MHz_QPSK_20000_50RB#0



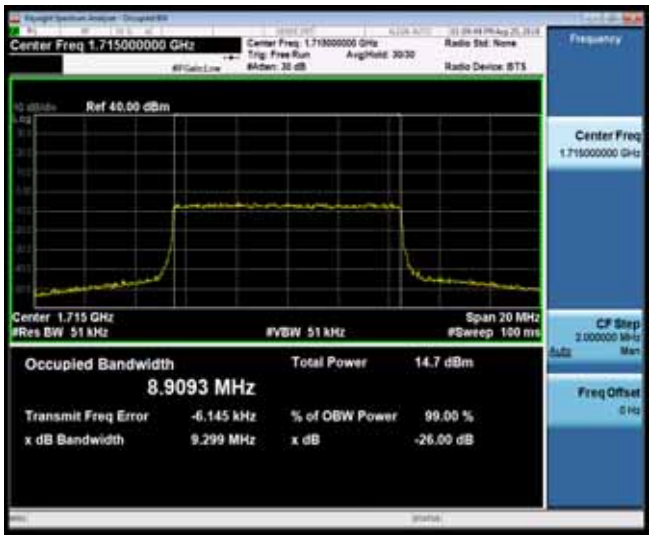
Band4_10MHz_QPSK_20175_50RB#0



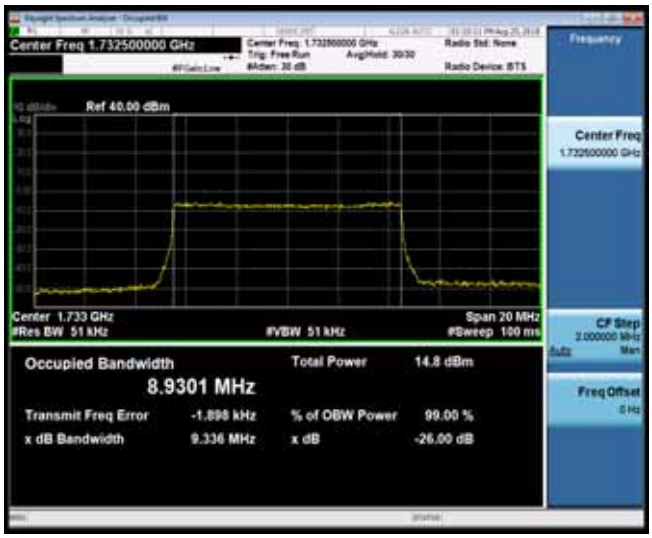
Band4_10MHz_QPSK_20350_50RB#0



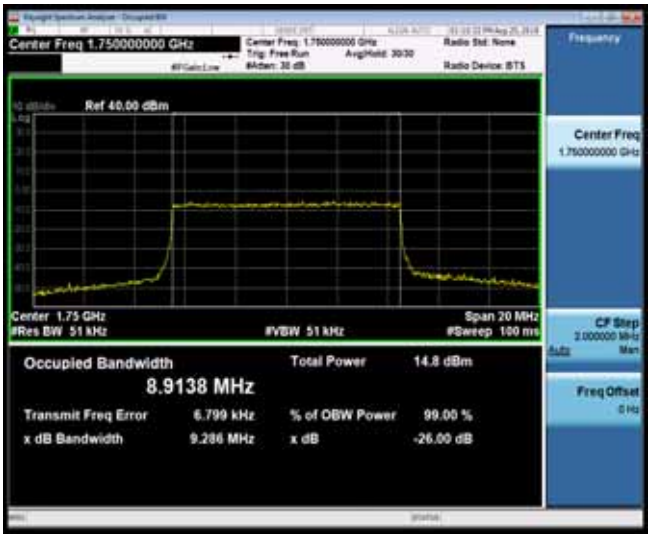
Band4_10MHz_16QAM_20000_50RB#0



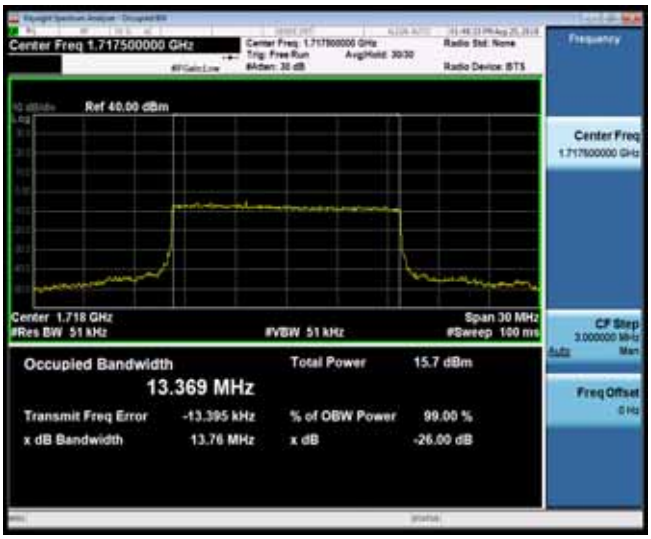
Band4_10MHz_16QAM_20175_50RB#0



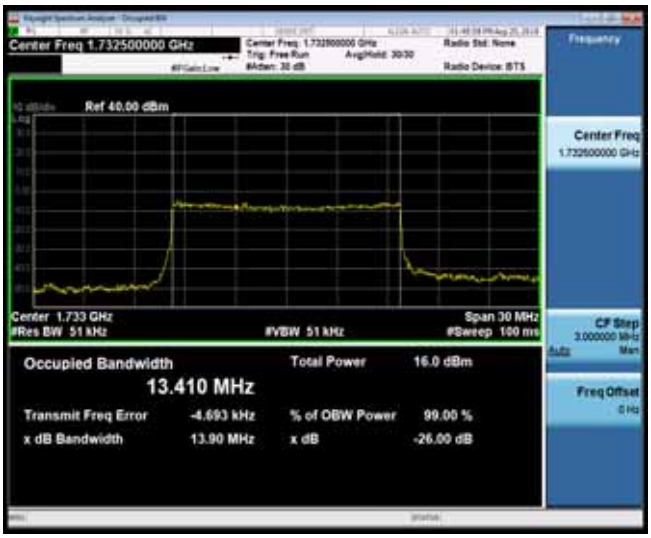
Band4_10MHz_16QAM_20350_50RB#0



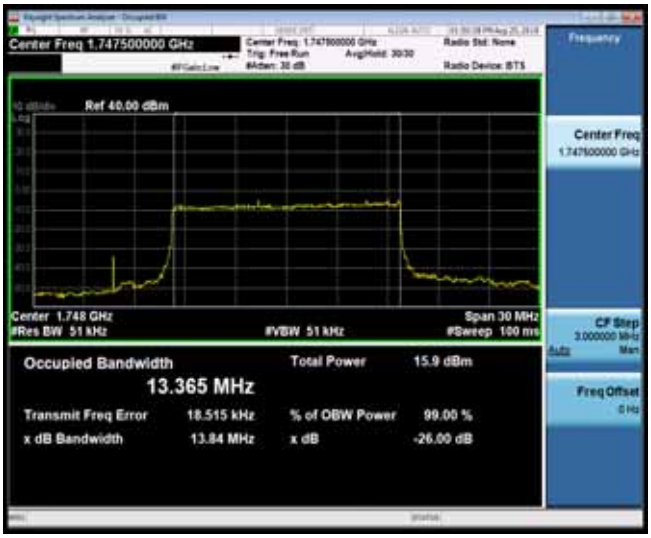
Band4_15MHz_QPSK_20025_75RB#0



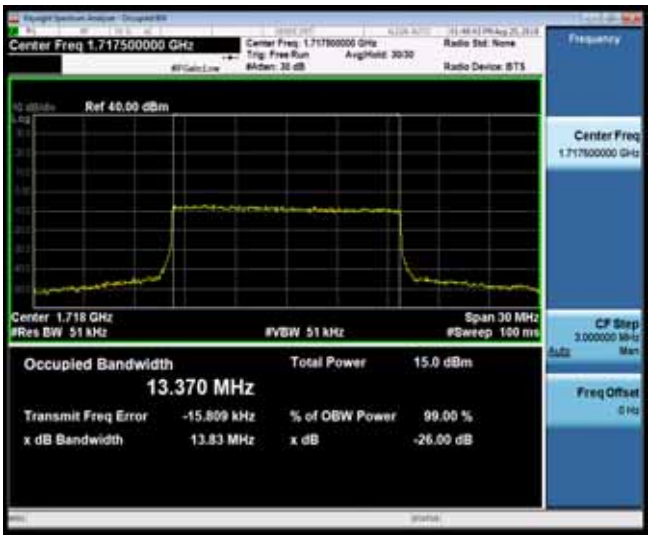
Band4_15MHz_QPSK_20175_75RB#0



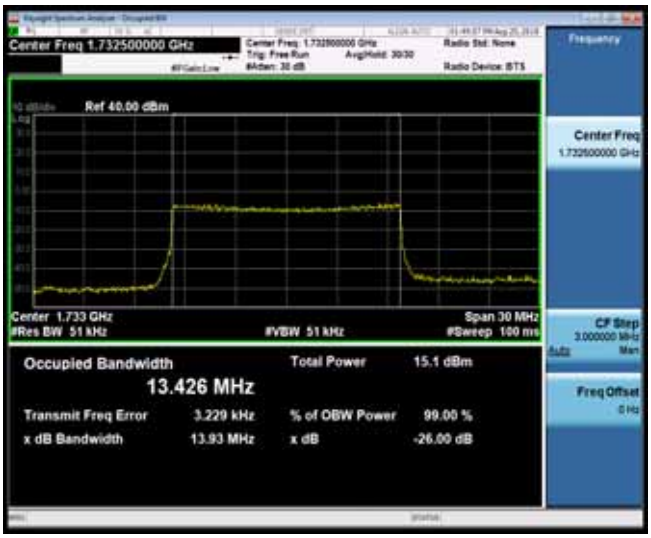
Band4_15MHz_QPSK_20325_75RB#0



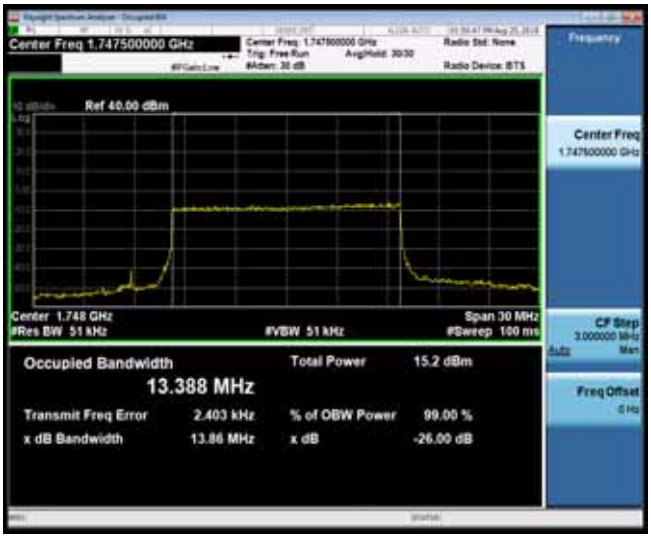
Band4_15MHz_16QAM_20025_75RB#0



Band4_15MHz_16QAM_20175_75RB#0

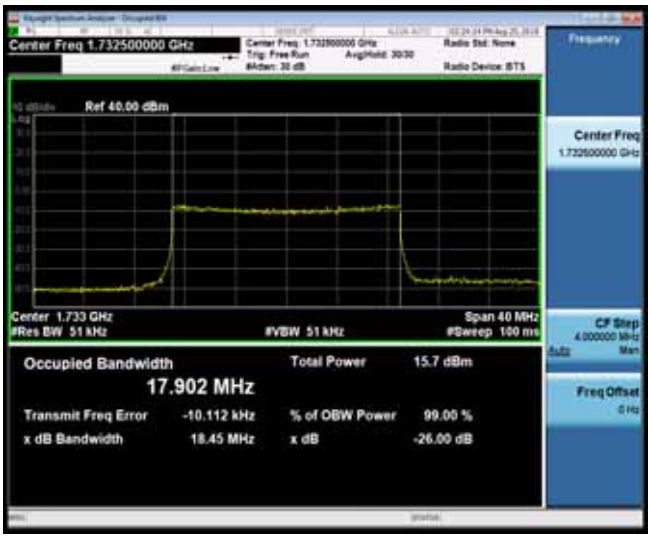


Band4_15MHz_16QAM_20325_75RB#0

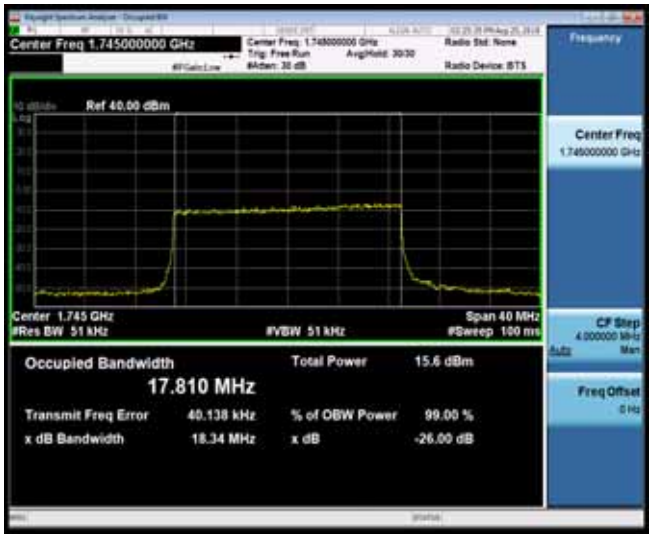


Band4_20MHz_QPSK_20050_100RB#0

Band4_20MHz_QPSK_20175_100RB#0

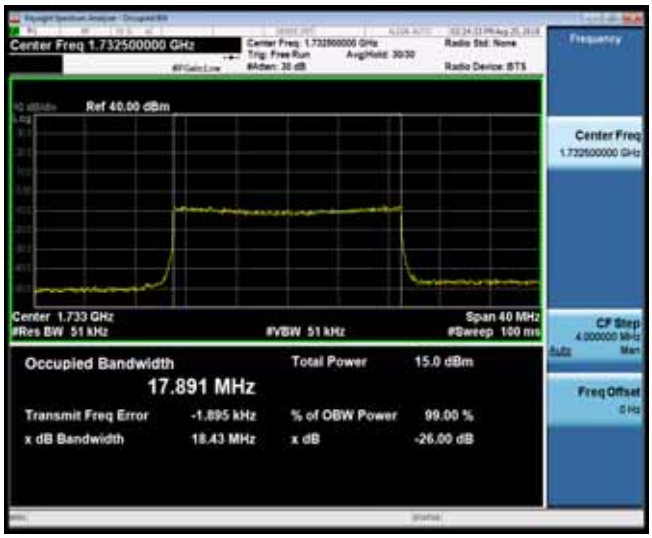


Band4_20MHz_QPSK_20300_100RB#0



Band4_20MHz_16QAM_20050_100RB#0

Band4_20MHz_16QAM_20175_100RB#0



Band4_20MHz_16QAM_20300_100RB#0

Center Freq 1.745000000 GHz
Ref 40.00 dBm
Center 1.745 GHz
#Res BW 51 kHz
#VBW 51 kHz
Span 40 MHz
#Sweep 100 ms
Occupied Bandwidth
17.809 MHz
Total Power 14.7 dBm
Transmit Freq Error 31.313 kHz
% of OBW Power 99.00 %
x dB Bandwidth 18.35 MHz
x dB -26.00 dB
Frequency
Center Freq
1.745000000 GHz
CF Step
Freq Offset

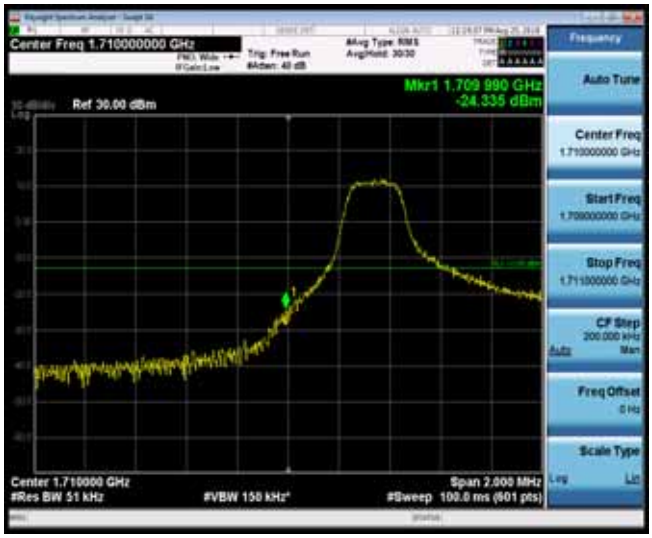
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	5MHz	QPSK	19975	1RB#0	-24.33	PASS
Band4	5MHz	QPSK	19975	25RB#0	-37.13	PASS
Band4	5MHz	QPSK	20375	1RB#0	-46.49	PASS
Band4	5MHz	QPSK	20375	25RB#0	-34.51	PASS
Band4	5MHz	16QAM	19975	1RB#0	-25.08	PASS
Band4	5MHz	16QAM	19975	25RB#0	-38.10	PASS
Band4	5MHz	16QAM	20375	1RB#0	-46.76	PASS
Band4	5MHz	16QAM	20375	25RB#0	-36.70	PASS
Band4	10MHz	QPSK	20000	1RB#0	-26.84	PASS
Band4	10MHz	QPSK	20000	50RB#0	-38.21	PASS
Band4	10MHz	QPSK	20350	1RB#0	-47.10	PASS
Band4	10MHz	QPSK	20350	50RB#0	-37.10	PASS
Band4	10MHz	16QAM	20000	1RB#0	-26.35	PASS
Band4	10MHz	16QAM	20000	50RB#0	-39.89	PASS
Band4	10MHz	16QAM	20350	1RB#0	-47.29	PASS
Band4	10MHz	16QAM	20350	50RB#0	-38.54	PASS
Band4	15MHz	QPSK	20025	1RB#0	-29.26	PASS
Band4	15MHz	QPSK	20025	75RB#0	-38.42	PASS
Band4	15MHz	QPSK	20325	1RB#0	-49.45	PASS
Band4	15MHz	QPSK	20325	75RB#0	-34.28	PASS
Band4	15MHz	16QAM	20025	1RB#0	-28.68	PASS
Band4	15MHz	16QAM	20025	75RB#0	-40.58	PASS
Band4	15MHz	16QAM	20325	1RB#0	-49.66	PASS
Band4	15MHz	16QAM	20325	75RB#0	-26.43	PASS
Band4	20MHz	QPSK	20050	1RB#0	-33.23	PASS
Band4	20MHz	QPSK	20050	100RB#0	-42.02	PASS
Band4	20MHz	QPSK	20300	1RB#0	-47.76	PASS
Band4	20MHz	QPSK	20300	100RB#0	-41.76	PASS
Band4	20MHz	16QAM	20050	1RB#0	-32.70	PASS
Band4	20MHz	16QAM	20050	100RB#0	-43.64	PASS
Band4	20MHz	16QAM	20300	1RB#0	-46.53	PASS
Band4	20MHz	16QAM	20300	100RB#0	-42.46	PASS

Test Graphs

Band4_5MHz_QPSK_19975_1RB#0



Band4_5MHz_QPSK_19975_25RB#0

Band4_5MHz_QPSK_20375_1RB#0

Band4_5MHz_QPSK_20375_25RB#0

Band4_5MHz_16QAM_19975_1RB#0

Band4_5MHz_16QAM_19975_25RB#0

Band4_5MHz_16QAM_20375_1RB#0

Band4_5MHz_16QAM_20375_25RB#0

Band4_10MHz_QPSK_20000_1RB#0

Band4_10MHz_QPSK_20000_50RB#0

Band4_10MHz_QPSK_20350_1RB#0

Band4_10MHz_QPSK_20350_50RB#0

Band4_10MHz_16QAM_20000_1RB#0

Band4_10MHz_16QAM_20000_50RB#0

Band4_10MHz_16QAM_20350_1RB#0

Band4_10MHz_16QAM_20350_50RB#0

Band4_15MHz_QPSK_20025_1RB#0

Band4_15MHz_QPSK_20025_75RB#0

Band4_15MHz_QPSK_20325_1RB#0

Band4_15MHz_QPSK_20325_75RB#0

Band4_15MHz_16QAM_20025_1RB#0

Band4_15MHz_16QAM_20025_75RB#0

Band4_15MHz_16QAM_20325_1RB#0

Band4_15MHz_16QAM_20325_75RB#0

Band4_20MHz_QPSK_20050_1RB#0

Band4_20MHz_QPSK_20050_100RB#0

Band4_20MHz_QPSK_20300_1RB#0

Band4_20MHz_QPSK_20300_100RB#0

Band4_20MHz_16QAM_20050_1RB#0

Band4_20MHz_16QAM_20050_100RB#0

Band4_20MHz_16QAM_20300_1RB#0

Band4_20MHz_16QAM_20300_100RB#0

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band 4	5MHz	QPSK	19975	1RB#0	Range1:0.009~0.15MHz	-72.15	PASS
Band 4	5MHz	QPSK	19975	1RB#0	Range2:0.15~30MHz	-59.48	PASS
Band 4	5MHz	QPSK	19975	1RB#0	Range3:30~1000MHz	-44.87	PASS
Band 4	5MHz	QPSK	19975	1RB#0	Range4:1000~5000MHz	-50.17	PASS
Band 4	5MHz	QPSK	19975	1RB#0	Range5:5000~12000MHz	-56.79	PASS
Band 4	5MHz	QPSK	19975	1RB#0	Range6:12000~18000MHz	-64.11	PASS
Band 4	5MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-74.28	PASS
Band 4	5MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-59.95	PASS
Band 4	5MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-44.6	PASS
Band 4	5MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-50.02	PASS
Band 4	5MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-60.97	PASS
Band 4	5MHz	QPSK	20175	1RB#0	Range6:12000~18000MHz	-64.09	PASS
Band 4	5MHz	QPSK	20375	1RB#0	Range1:0.009~0.15MHz	-71.54	PASS
Band 4	5MHz	QPSK	20375	1RB#0	Range2:0.15~30MHz	-58.31	PASS
Band 4	5MHz	QPSK	20375	1RB#0	Range3:30~1000MHz	-44.82	PASS
Band 4	5MHz	QPSK	20375	1RB#0	Range4:1000~5000MHz	-50.11	PASS
Band 4	5MHz	QPSK	20375	1RB#0	Range5:5000~12000MHz	-60.39	PASS

Band 4	5MHz	QPSK	20375	1RB#0	Range6:12000~18000MHz	-63.99	PASS
Band 4	5MHz	16QAM	19975	1RB#0	Range1:0.009~0.15MHz	-72.51	PASS
Band 4	5MHz	16QAM	19975	1RB#0	Range2:0.15~30MHz	-58.26	PASS
Band 4	5MHz	16QAM	19975	1RB#0	Range3:30~1000MHz	-44.88	PASS
Band 4	5MHz	16QAM	19975	1RB#0	Range4:1000~5000MHz	-50	PASS
Band 4	5MHz	16QAM	19975	1RB#0	Range5:5000~12000MHz	-56.8	PASS
Band 4	5MHz	16QAM	19975	1RB#0	Range6:12000~18000MHz	-64.08	PASS
Band 4	5MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-75.07	PASS
Band 4	5MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-58.12	PASS
Band 4	5MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-45.46	PASS
Band 4	5MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-50.06	PASS
Band 4	5MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-61.01	PASS
Band 4	5MHz	16QAM	20175	1RB#0	Range6:12000~18000MHz	-63.91	PASS
Band 4	5MHz	16QAM	20375	1RB#0	Range1:0.009~0.15MHz	-72.89	PASS
Band 4	5MHz	16QAM	20375	1RB#0	Range2:0.15~30MHz	-59.13	PASS
Band 4	5MHz	16QAM	20375	1RB#0	Range3:30~1000MHz	-44.88	PASS
Band 4	5MHz	16QAM	20375	1RB#0	Range4:1000~5000MHz	-50.11	PASS
Band 4	5MHz	16QAM	20375	1RB#0	Range5:5000~12000MHz	-60.6	PASS
Band 4	5MHz	16QAM	20375	1RB#0	Range6:12000~18000MHz	-63.97	PASS
Band 4	10MHz	QPSK	20000	1RB#0	Range1:0.009~0.15MHz	-71.6	PASS
Band 4	10MHz	QPSK	20000	1RB#0	Range2:0.15~30MHz	-55.89	PASS
Band 4	10MHz	QPSK	20000	1RB#0	Range3:30~1000MHz	-44.34	PASS

Band 4	10MHz	QPSK	20000	1RB#0	Range4:1000~5000MHz	-50.01	PASS
Band 4	10MHz	QPSK	20000	1RB#0	Range5:5000~12000MHz	-56.68	PASS
Band 4	10MHz	QPSK	20000	1RB#0	Range6:12000~18000MHz	-63.74	PASS
Band 4	10MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-73.08	PASS
Band 4	10MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-58.56	PASS
Band 4	10MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-44.45	PASS
Band 4	10MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-50.1	PASS
Band 4	10MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-60.75	PASS
Band 4	10MHz	QPSK	20175	1RB#0	Range6:12000~18000MHz	-64.02	PASS
Band 4	10MHz	QPSK	20350	1RB#0	Range1:0.009~0.15MHz	-72.42	PASS
Band 4	10MHz	QPSK	20350	1RB#0	Range2:0.15~30MHz	-58.08	PASS
Band 4	10MHz	QPSK	20350	1RB#0	Range3:30~1000MHz	-44.94	PASS
Band 4	10MHz	QPSK	20350	1RB#0	Range4:1000~5000MHz	-50	PASS
Band 4	10MHz	QPSK	20350	1RB#0	Range5:5000~12000MHz	-60.33	PASS
Band 4	10MHz	QPSK	20350	1RB#0	Range6:12000~18000MHz	-63.98	PASS
Band 4	10MHz	16QAM	20000	1RB#0	Range1:0.009~0.15MHz	-73.36	PASS
Band 4	10MHz	16QAM	20000	1RB#0	Range2:0.15~30MHz	-57.86	PASS
Band 4	10MHz	16QAM	20000	1RB#0	Range3:30~1000MHz	-44.96	PASS
Band 4	10MHz	16QAM	20000	1RB#0	Range4:1000~5000MHz	-50.14	PASS
Band 4	10MHz	16QAM	20000	1RB#0	Range5:5000~12000MHz	-56.97	PASS
Band 4	10MHz	16QAM	20000	1RB#0	Range6:12000~18000MHz	-64.07	PASS
Band 4	10MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-75.01	PASS

Band 4	10MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-58.45	PASS
Band 4	10MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-45.47	PASS
Band 4	10MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-50.03	PASS
Band 4	10MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-61.09	PASS
Band 4	10MHz	16QAM	20175	1RB#0	Range6:12000~18000MHz	-64.01	PASS
Band 4	10MHz	16QAM	20350	1RB#0	Range1:0.009~0.15MHz	-71.09	PASS
Band 4	10MHz	16QAM	20350	1RB#0	Range2:0.15~30MHz	-59.57	PASS
Band 4	10MHz	16QAM	20350	1RB#0	Range3:30~1000MHz	-45.15	PASS
Band 4	10MHz	16QAM	20350	1RB#0	Range4:1000~5000MHz	-50.08	PASS
Band 4	10MHz	16QAM	20350	1RB#0	Range5:5000~12000MHz	-59.11	PASS
Band 4	10MHz	16QAM	20350	1RB#0	Range6:12000~18000MHz	-64	PASS
Band 4	15MHz	QPSK	20025	1RB#0	Range1:0.009~0.15MHz	-73.22	PASS
Band 4	15MHz	QPSK	20025	1RB#0	Range2:0.15~30MHz	-58.05	PASS
Band 4	15MHz	QPSK	20025	1RB#0	Range3:30~1000MHz	-44.92	PASS
Band 4	15MHz	QPSK	20025	1RB#0	Range4:1000~5000MHz	-50.05	PASS
Band 4	15MHz	QPSK	20025	1RB#0	Range5:5000~12000MHz	-57.24	PASS
Band 4	15MHz	QPSK	20025	1RB#0	Range6:12000~18000MHz	-64.12	PASS
Band 4	15MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-73.1	PASS
Band 4	15MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-57.73	PASS
Band 4	15MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-45.08	PASS
Band 4	15MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-50.07	PASS
Band 4	15MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-60.89	PASS

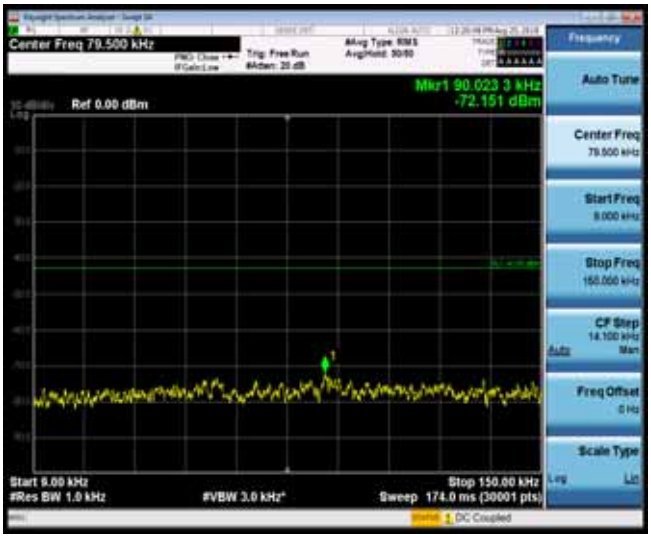
Band 4	15MHz	QPSK	20175	1RB#0	Range6:12000~18000MHz	-64.12	PASS
Band 4	15MHz	QPSK	20325	1RB#0	Range1:0.009~0.15MHz	-71.87	PASS
Band 4	15MHz	QPSK	20325	1RB#0	Range2:0.15~30MHz	-59.02	PASS
Band 4	15MHz	QPSK	20325	1RB#0	Range3:30~1000MHz	-44.75	PASS
Band 4	15MHz	QPSK	20325	1RB#0	Range4:1000~5000MHz	-50.02	PASS
Band 4	15MHz	QPSK	20325	1RB#0	Range5:5000~12000MHz	-59.07	PASS
Band 4	15MHz	QPSK	20325	1RB#0	Range6:12000~18000MHz	-63.91	PASS
Band 4	15MHz	16QAM	20025	1RB#0	Range1:0.009~0.15MHz	-70.75	PASS
Band 4	15MHz	16QAM	20025	1RB#0	Range2:0.15~30MHz	-57.9	PASS
Band 4	15MHz	16QAM	20025	1RB#0	Range3:30~1000MHz	-45.34	PASS
Band 4	15MHz	16QAM	20025	1RB#0	Range4:1000~5000MHz	-50.16	PASS
Band 4	15MHz	16QAM	20025	1RB#0	Range5:5000~12000MHz	-57.5	PASS
Band 4	15MHz	16QAM	20025	1RB#0	Range6:12000~18000MHz	-64.07	PASS
Band 4	15MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-73.56	PASS
Band 4	15MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-57.75	PASS
Band 4	15MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-45.34	PASS
Band 4	15MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-49.84	PASS
Band 4	15MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-61.08	PASS
Band 4	15MHz	16QAM	20175	1RB#0	Range6:12000~18000MHz	-64.01	PASS
Band 4	15MHz	16QAM	20325	1RB#0	Range1:0.009~0.15MHz	-71.03	PASS
Band 4	15MHz	16QAM	20325	1RB#0	Range2:0.15~30MHz	-57.87	PASS
Band 4	15MHz	16QAM	20325	1RB#0	Range3:30~1000MHz	-45.04	PASS

Band 4	15MHz	16QAM	20325	1RB#0	Range4:1000~5000MHz	-50.04	PASS
Band 4	15MHz	16QAM	20325	1RB#0	Range5:5000~12000MHz	-58.6	PASS
Band 4	15MHz	16QAM	20325	1RB#0	Range6:12000~18000MHz	-63.99	PASS
Band 4	20MHz	QPSK	20050	1RB#0	Range1:0.009~0.15MHz	-72.39	PASS
Band 4	20MHz	QPSK	20050	1RB#0	Range2:0.15~30MHz	-57.42	PASS
Band 4	20MHz	QPSK	20050	1RB#0	Range3:30~1000MHz	-44.92	PASS
Band 4	20MHz	QPSK	20050	1RB#0	Range4:1000~5000MHz	-50.15	PASS
Band 4	20MHz	QPSK	20050	1RB#0	Range5:5000~12000MHz	-57.46	PASS
Band 4	20MHz	QPSK	20050	1RB#0	Range6:12000~18000MHz	-64.1	PASS
Band 4	20MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-72.64	PASS
Band 4	20MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-57.61	PASS
Band 4	20MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-45.08	PASS
Band 4	20MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-50.12	PASS
Band 4	20MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-59.47	PASS
Band 4	20MHz	QPSK	20175	1RB#0	Range6:12000~18000MHz	-63.96	PASS
Band 4	20MHz	QPSK	20300	1RB#0	Range1:0.009~0.15MHz	-72.74	PASS
Band 4	20MHz	QPSK	20300	1RB#0	Range2:0.15~30MHz	-59.49	PASS
Band 4	20MHz	QPSK	20300	1RB#0	Range3:30~1000MHz	-45.06	PASS
Band 4	20MHz	QPSK	20300	1RB#0	Range4:1000~5000MHz	-50.12	PASS
Band 4	20MHz	QPSK	20300	1RB#0	Range5:5000~12000MHz	-58.52	PASS
Band 4	20MHz	QPSK	20300	1RB#0	Range6:12000~18000MHz	-64.01	PASS
Band 4	20MHz	16QAM	20050	1RB#0	Range1:0.009~0.15MHz	-73.74	PASS

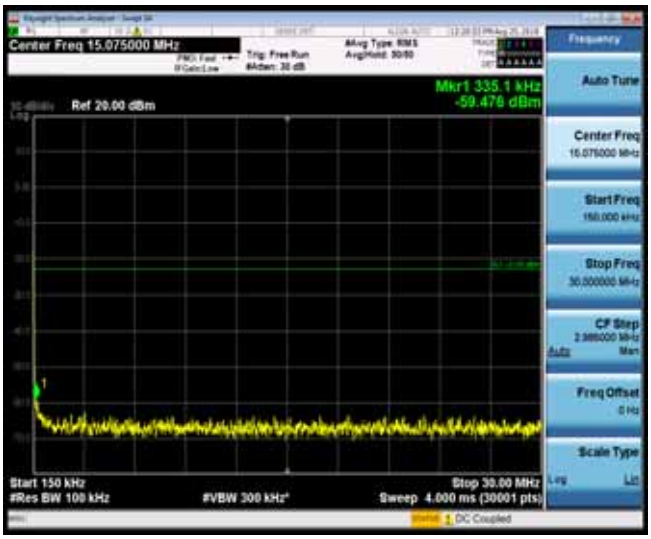
Band 4	20MHz	16QAM	20050	1RB#0	Range2:0.15~30MHz	-59.92	PASS
Band 4	20MHz	16QAM	20050	1RB#0	Range3:30~1000MHz	-43.98	PASS
Band 4	20MHz	16QAM	20050	1RB#0	Range4:1000~5000MHz	-50.13	PASS
Band 4	20MHz	16QAM	20050	1RB#0	Range5:5000~12000MHz	-57.26	PASS
Band 4	20MHz	16QAM	20050	1RB#0	Range6:12000~18000MHz	-64.07	PASS
Band 4	20MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-74.12	PASS
Band 4	20MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-58.13	PASS
Band 4	20MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-44.68	PASS
Band 4	20MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-50.14	PASS
Band 4	20MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-59.93	PASS
Band 4	20MHz	16QAM	20175	1RB#0	Range6:12000~18000MHz	-63.84	PASS
Band 4	20MHz	16QAM	20300	1RB#0	Range1:0.009~0.15MHz	-79.19	PASS
Band 4	20MHz	16QAM	20300	1RB#0	Range2:0.15~30MHz	-58.51	PASS
Band 4	20MHz	16QAM	20300	1RB#0	Range3:30~1000MHz	-44.59	PASS
Band 4	20MHz	16QAM	20300	1RB#0	Range4:1000~5000MHz	-50.09	PASS
Band 4	20MHz	16QAM	20300	1RB#0	Range5:5000~12000MHz	-67.36	PASS
Band 4	20MHz	16QAM	20300	1RB#0	Range6:12000~18000MHz	-64.16	PASS

Test Graphs

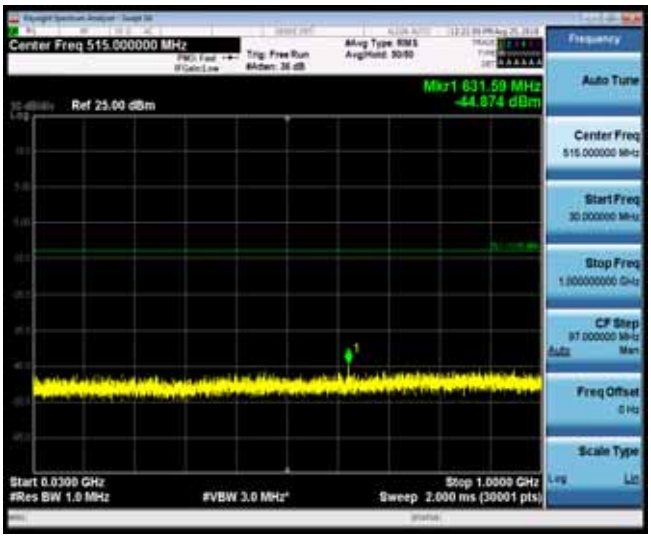
Band4_5MHz_QPSK_19975_1RB#0



Band4_5MHz_QPSK_19975_1RB#0



Band4_5MHz_QPSK_19975_1RB#0



Band4_5MHz_QPSK_19975_1RB#0

Band4_5MHz_QPSK_19975_1RB#0

Band4_5MHz_QPSK_19975_1RB#0

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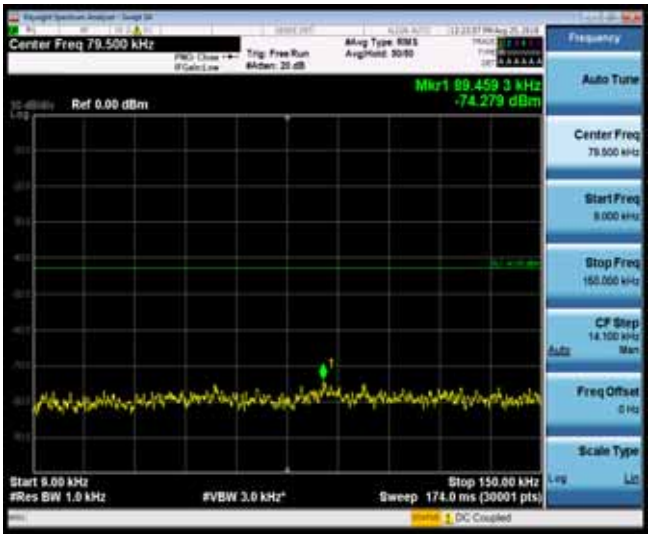
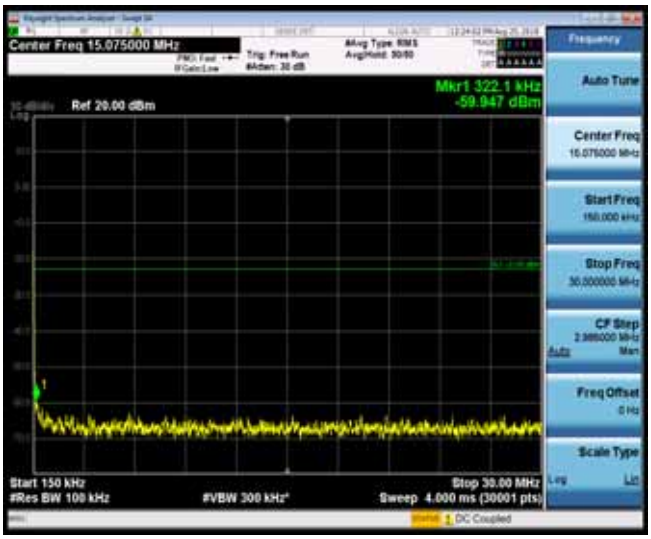
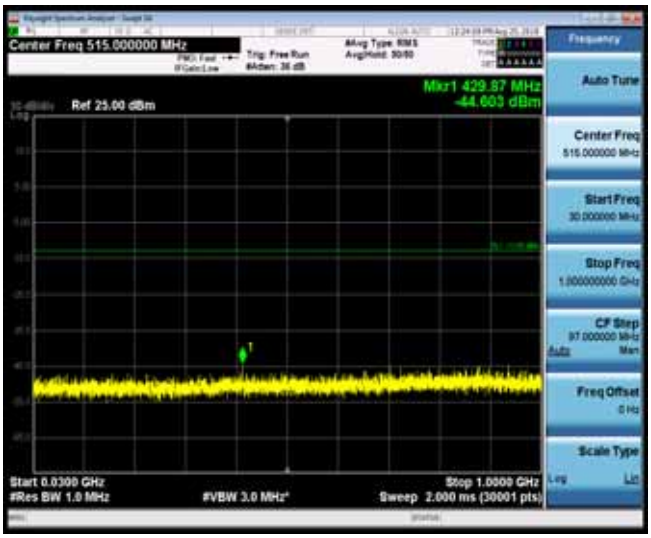


Band4_5MHz_QPSK_20175_1RB#0



Band4_5MHz_QPSK_20175_1RB#0

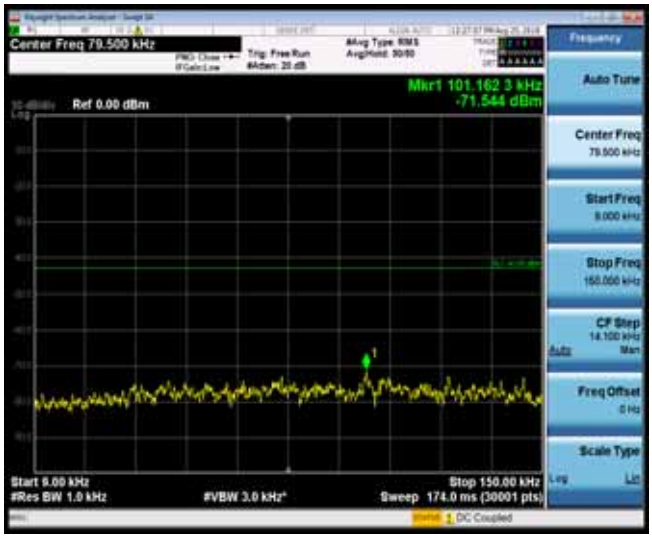


Band4_5MHz_QPSK_20175_1RB#0

Band4_5MHz_QPSK_20175_1RB#0

Band4_5MHz_QPSK_20175_1RB#0

Band4_5MHz_QPSK_20375_1RB#0



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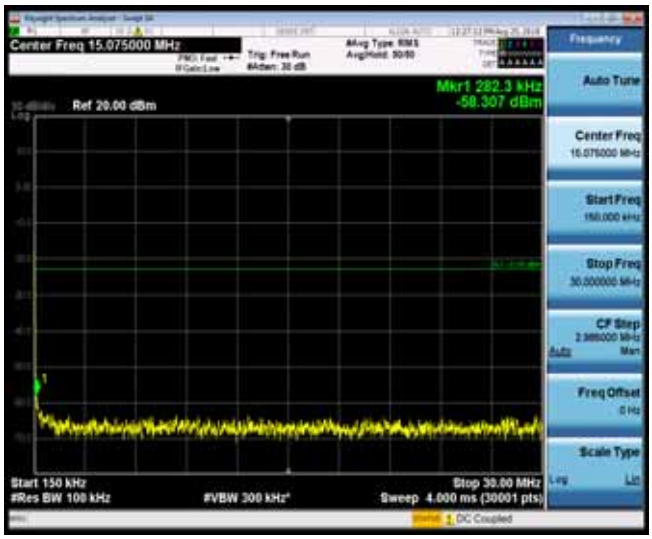

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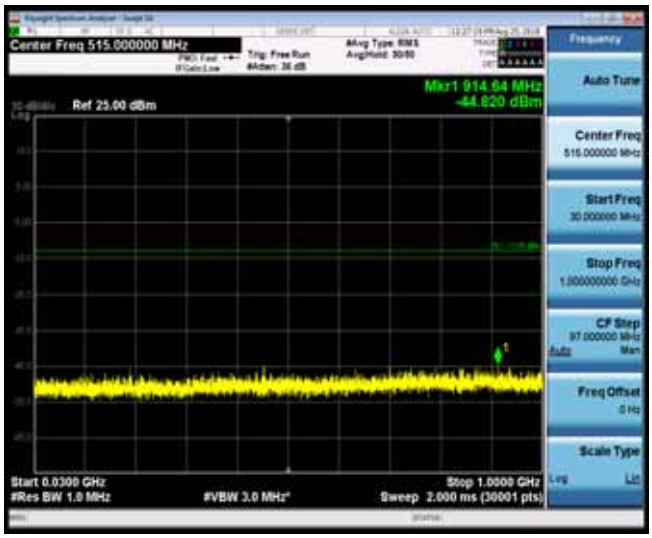
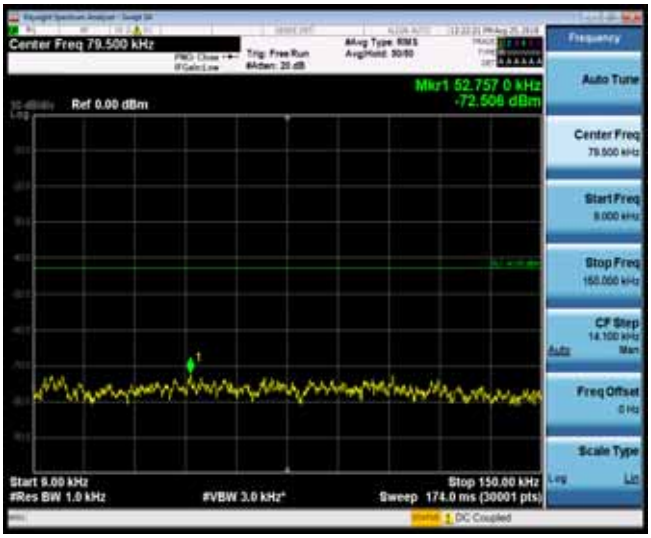


Band4_5MHz_QPSK_20375_1RB#0

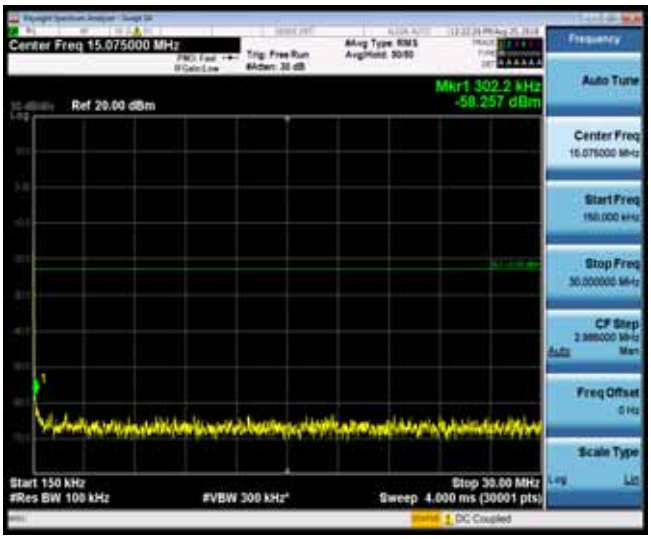
Band4_5MHz_QPSK_20375_1RB#0

Band4_5MHz_QPSK_20375_1RB#0

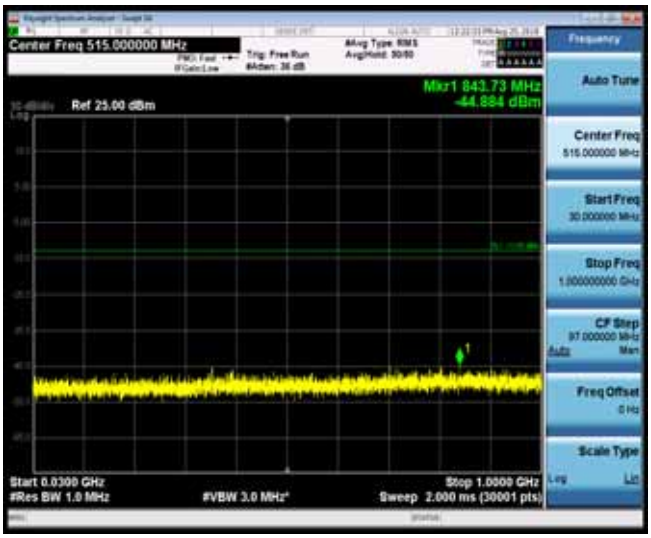
Band4_5MHz_16QAM_19975_1RB#0



Band4_5MHz_16QAM_19975_1RB#0



Band4_5MHz_16QAM_19975_1RB#0

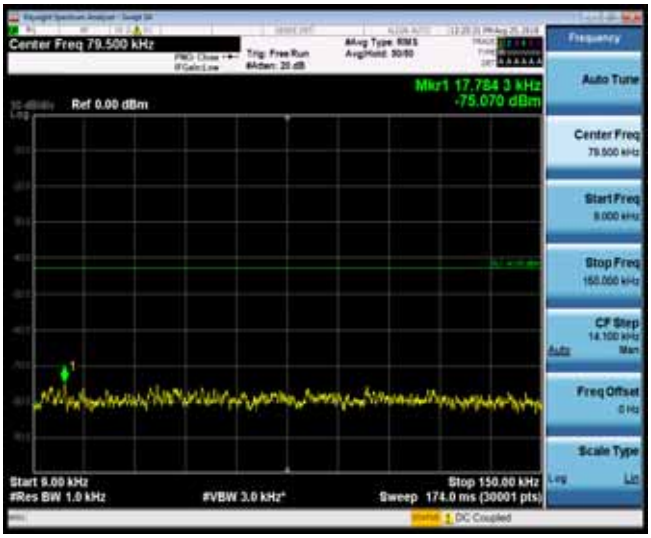


Band4_5MHz_16QAM_19975_1RB#0

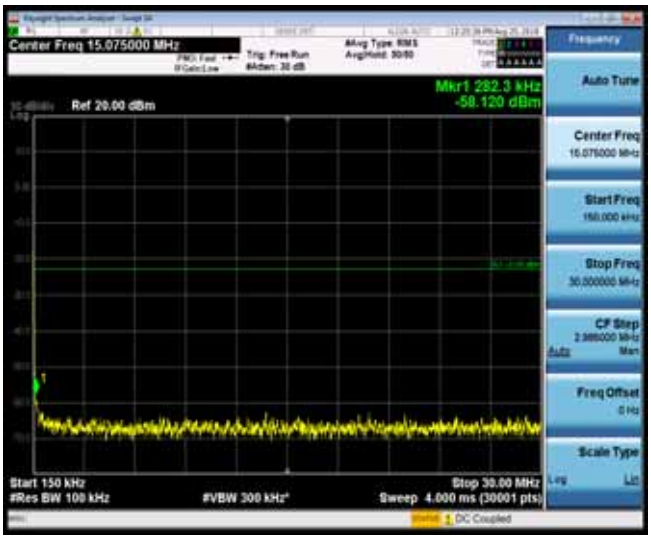
Band4_5MHz_16QAM_19975_1RB#0

Band4_5MHz_16QAM_19975_1RB#0

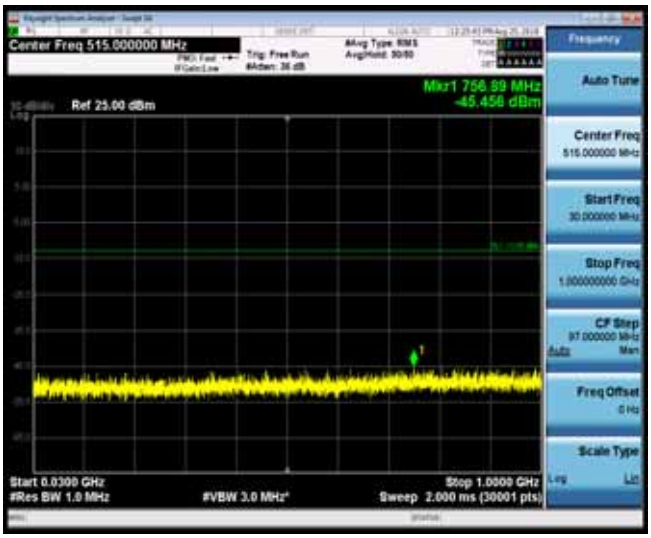
Band4_5MHz_16QAM_20175_1RB#0



Band4_5MHz_16QAM_20175_1RB#0



Band4_5MHz_16QAM_20175_1RB#0

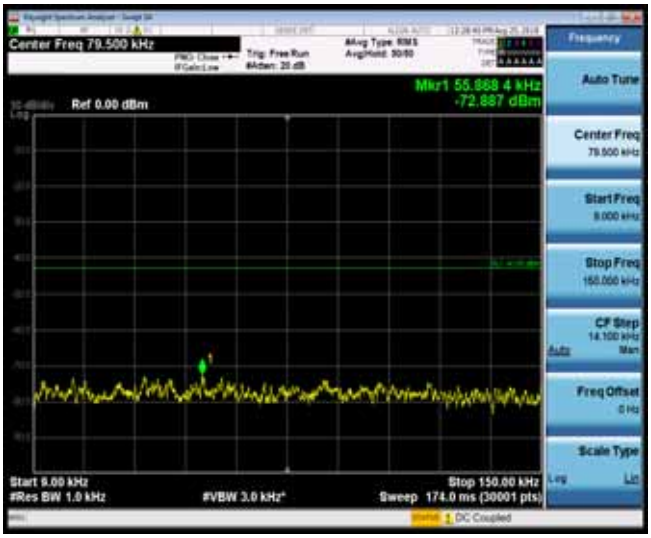


Band4_5MHz_16QAM_20175_1RB#0

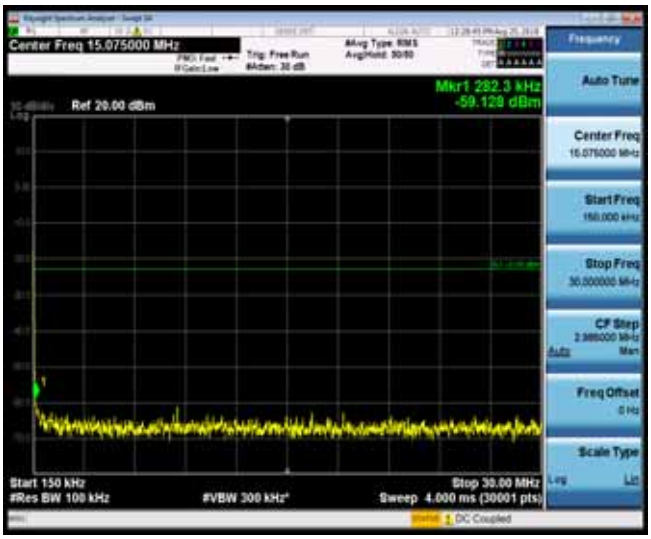
Band4_5MHz_16QAM_20175_1RB#0

Band4_5MHz_16QAM_20175_1RB#0

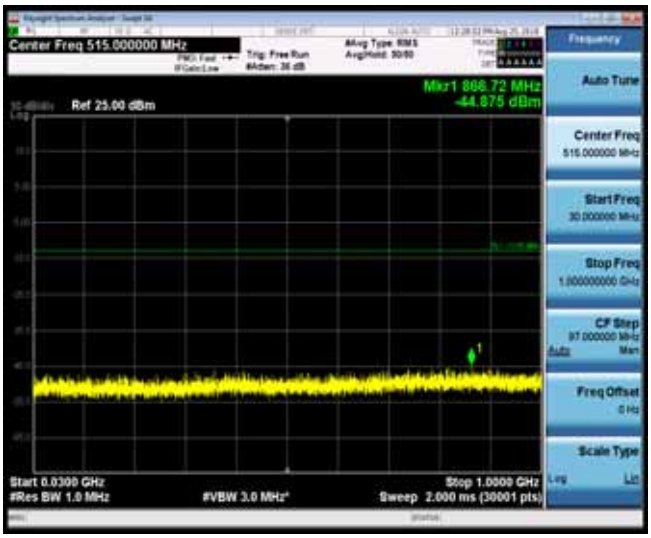
Band4_5MHz_16QAM_20375_1RB#0



Band4_5MHz_16QAM_20375_1RB#0



Band4_5MHz_16QAM_20375_1RB#0

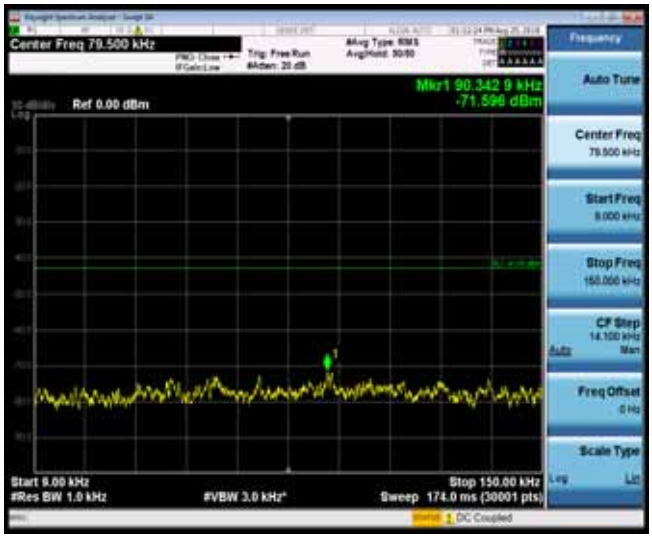


Band4_5MHz_16QAM_20375_1RB#0

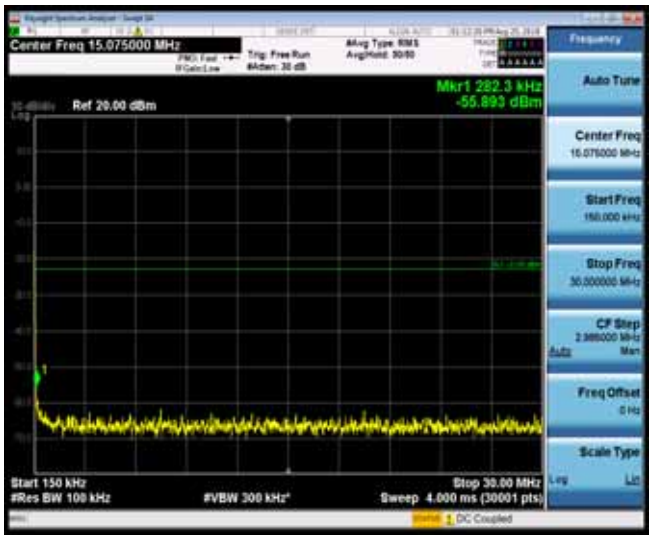
Band4_5MHz_16QAM_20375_1RB#0

Band4_5MHz_16QAM_20375_1RB#0

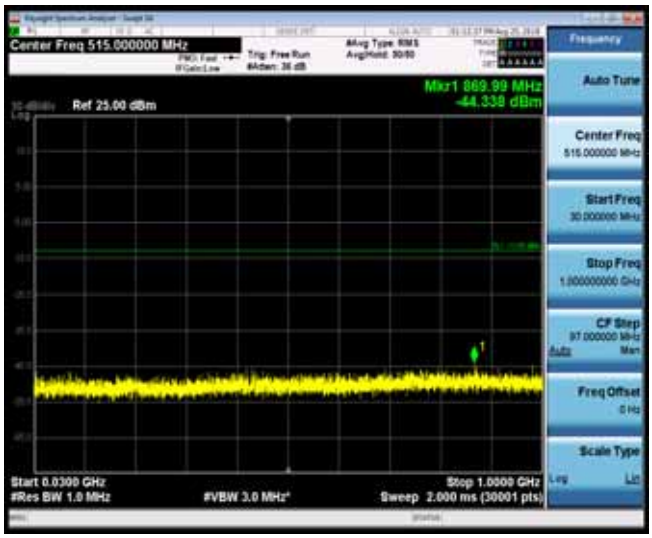
Band4_10MHz_QPSK_20000_1RB#0



Band4_10MHz_QPSK_20000_1RB#0



Band4_10MHz_QPSK_20000_1RB#0



Band4_10MHz_QPSK_20000_1RB#0

Band4_10MHz_QPSK_20000_1RB#0

Band4_10MHz_QPSK_20000_1RB#0

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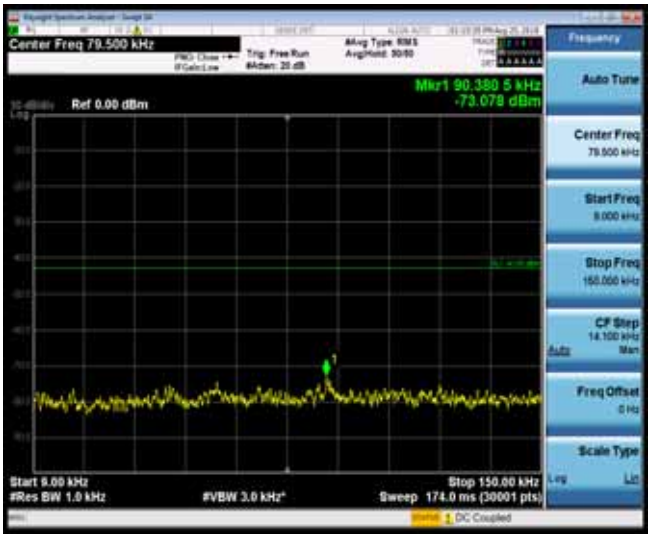
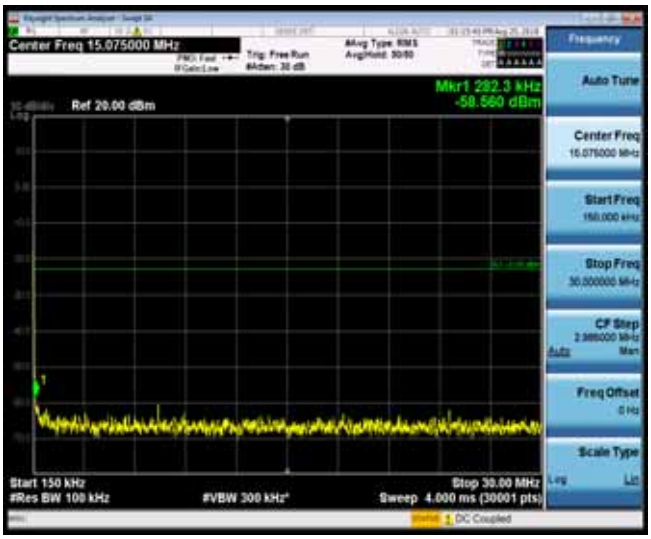
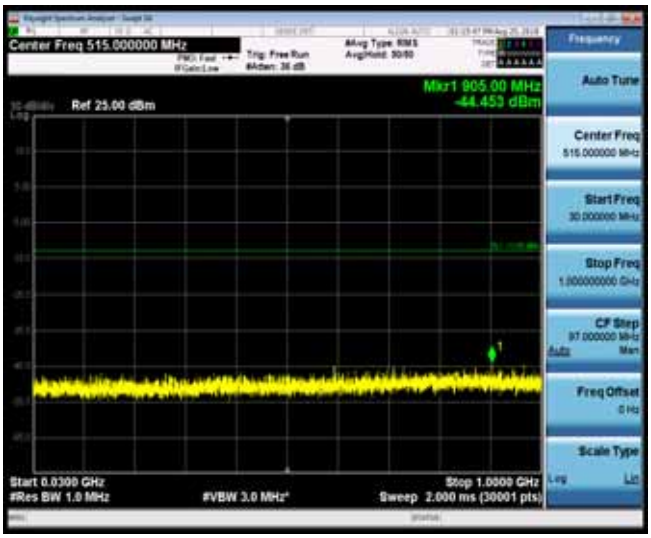


Band4_10MHz_QPSK_20175_1RB#0



Band4_10MHz_QPSK_20175_1RB#0



Band4_10MHz_QPSK_20175_1RB#0

Band4_10MHz_QPSK_20175_1RB#0

Band4_10MHz_QPSK_20175_1RB#0

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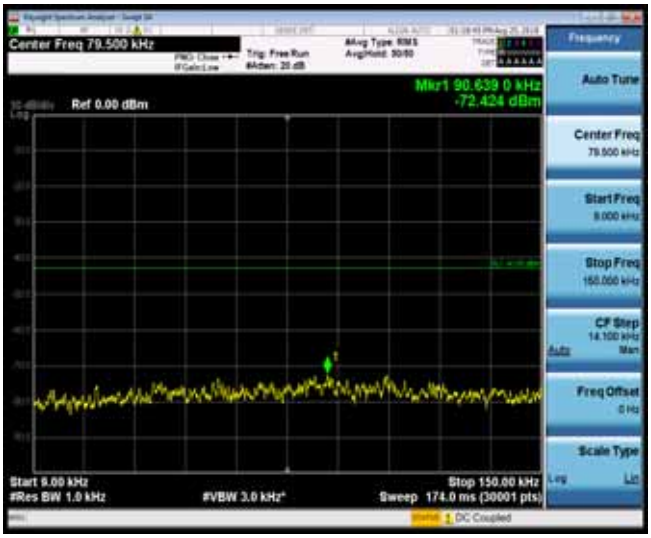
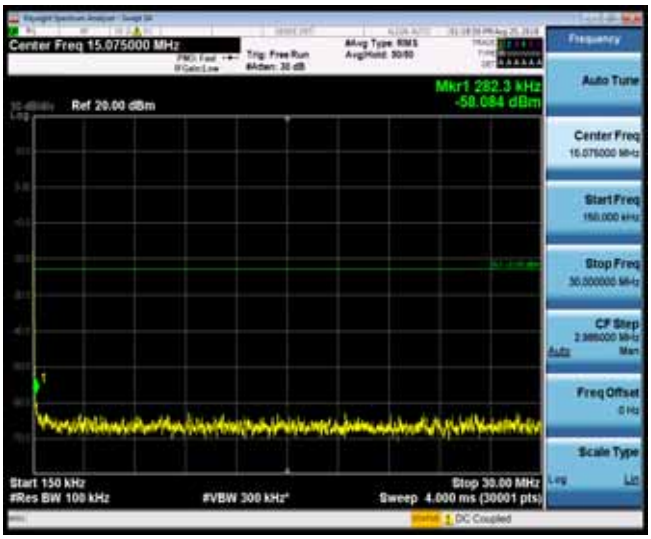
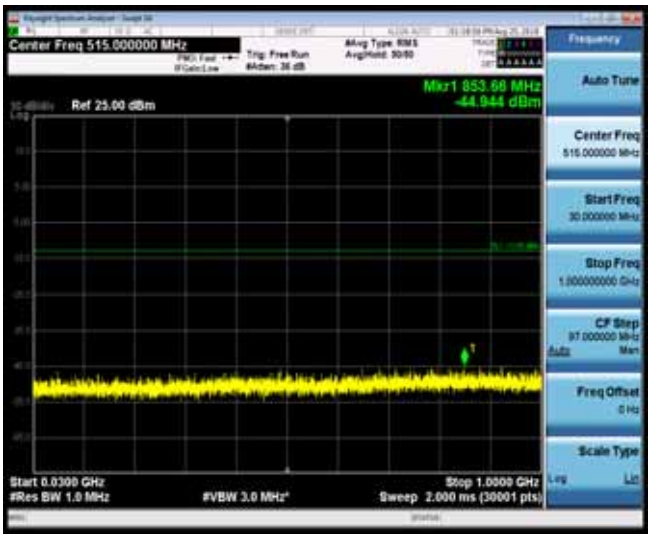


Band4_10MHz_QPSK_20350_1RB#0



Band4_10MHz_QPSK_20350_1RB#0

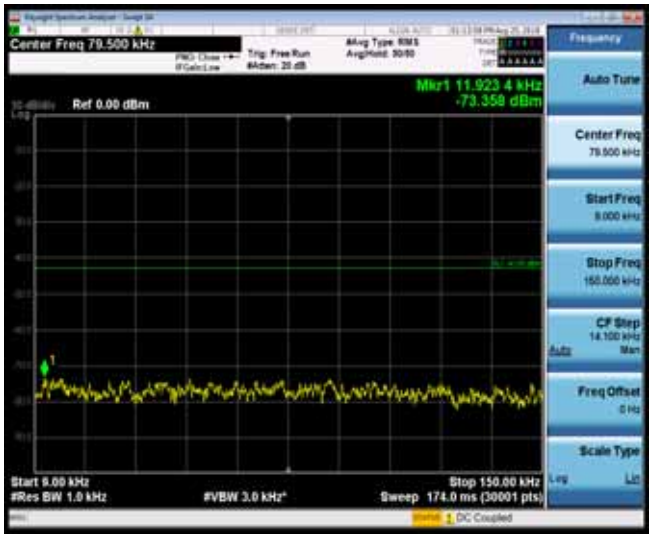


Band4_10MHz_QPSK_20350_1RB#0

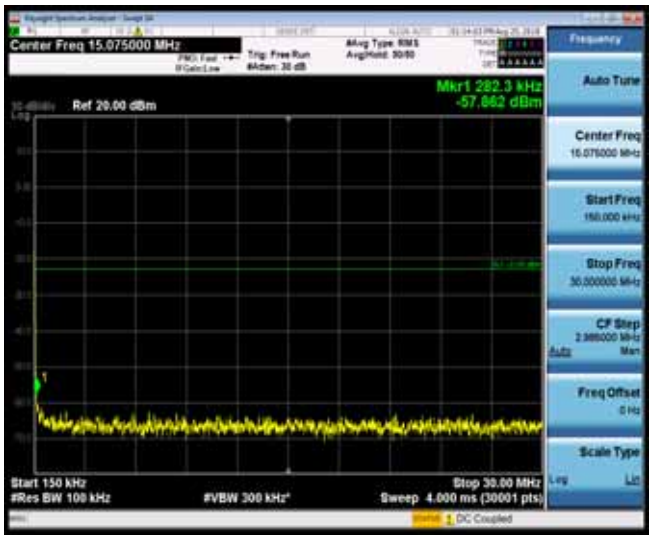
Band4_10MHz_QPSK_20350_1RB#0

Band4_10MHz_QPSK_20350_1RB#0

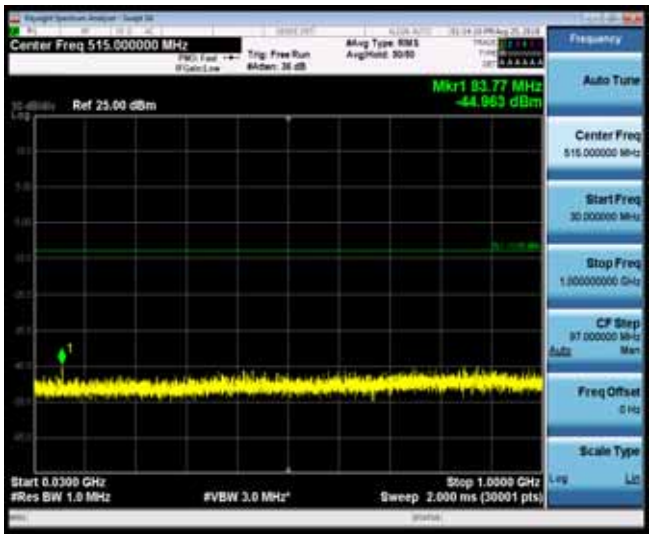
Band4_10MHz_16QAM_20000_1RB#0



Band4_10MHz_16QAM_20000_1RB#0



Band4_10MHz_16QAM_20000_1RB#0



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Band4_10MHz_16QAM_20000_1RB#0

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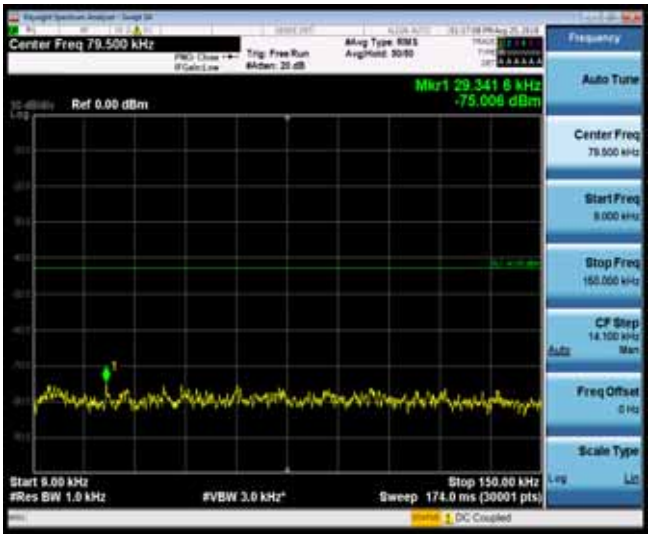

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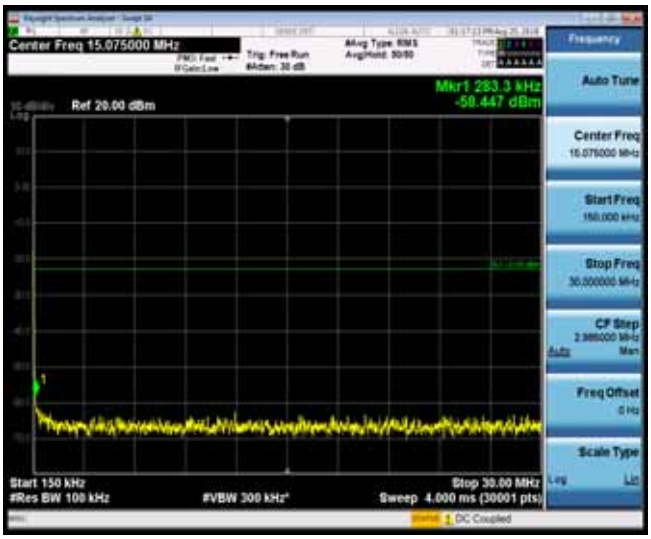

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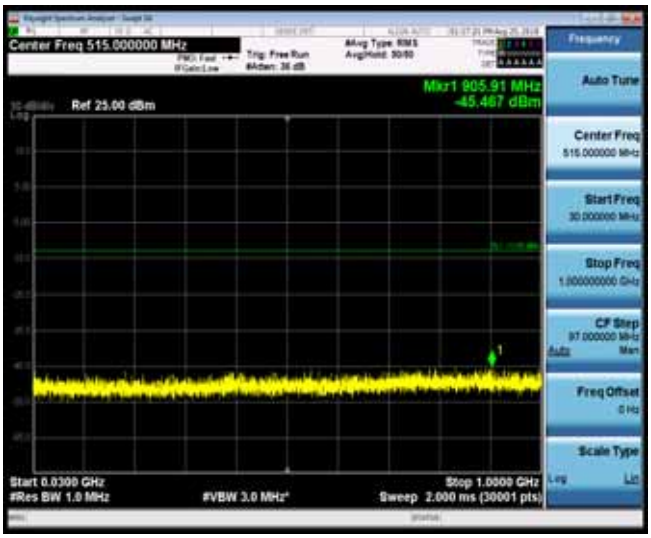

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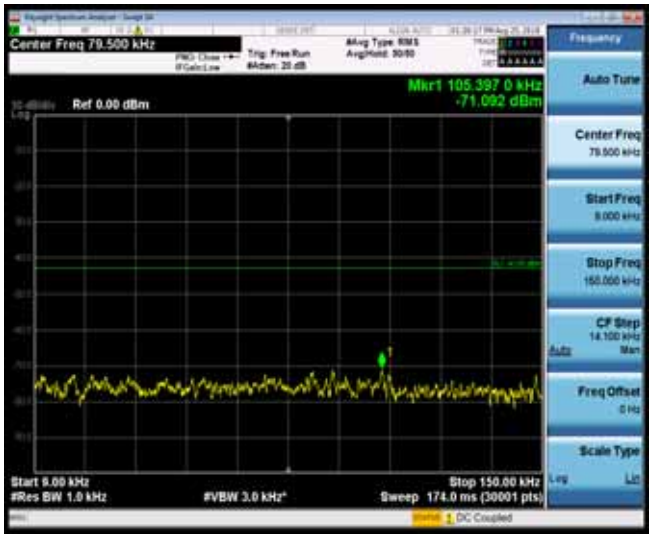

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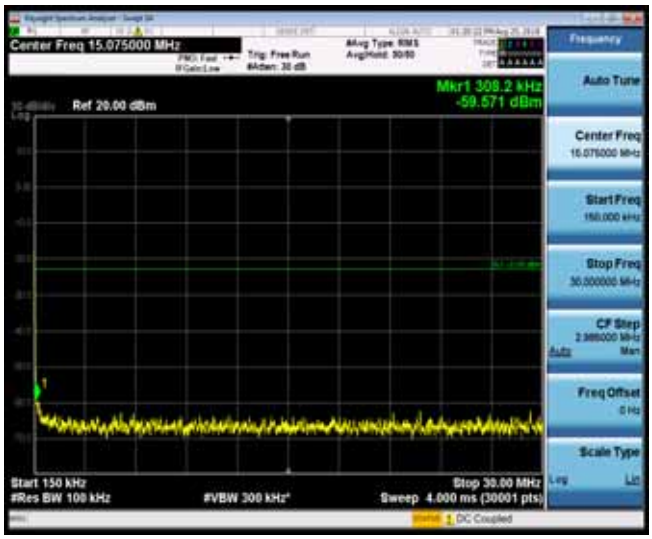

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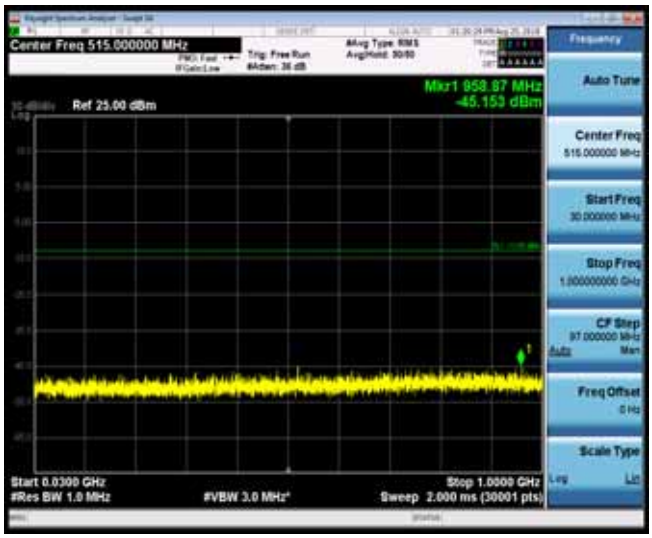

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Band4_10MHz_16QAM_20350_1RB#0

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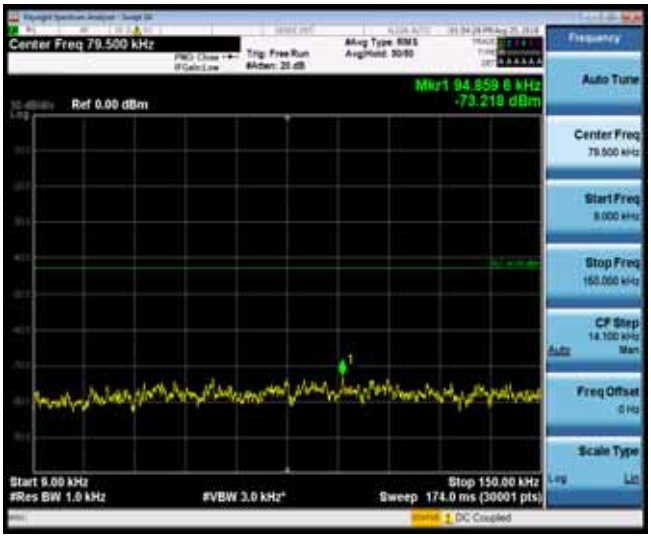

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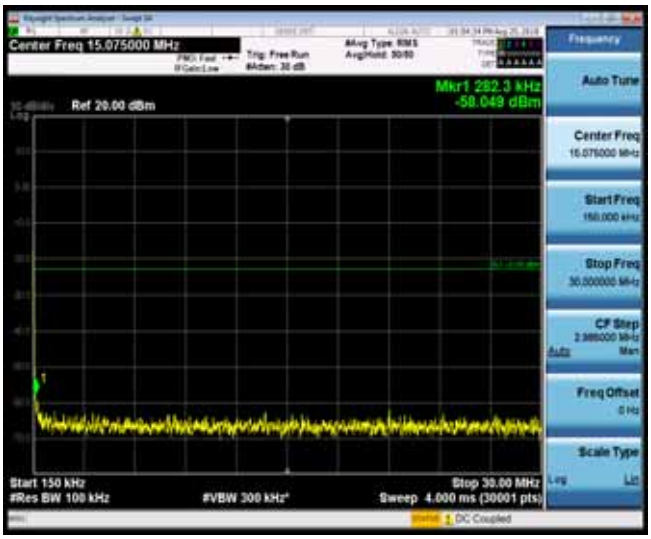

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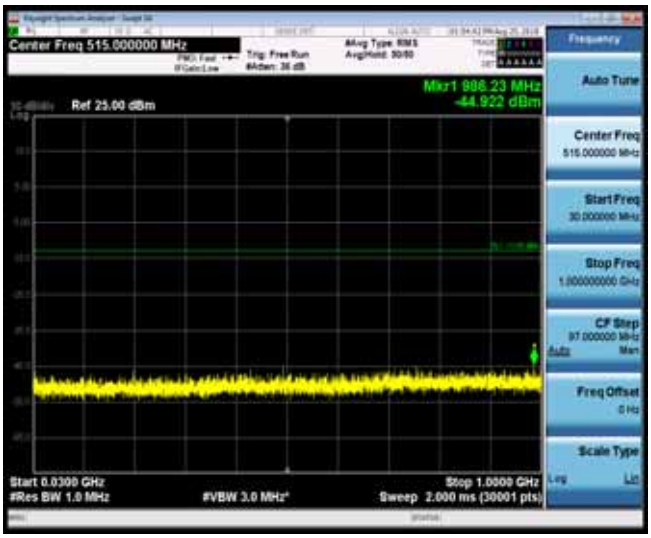

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Band4_15MHz_QPSK_20025_1RB#0

Band4_15MHz_QPSK_20025_1RB#0

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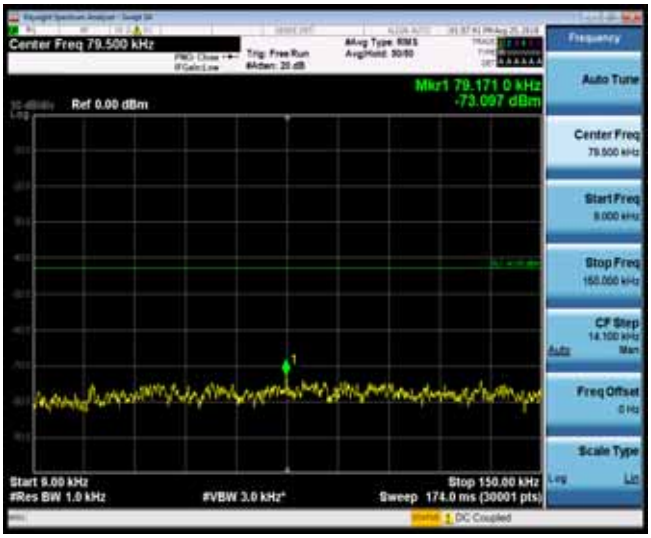

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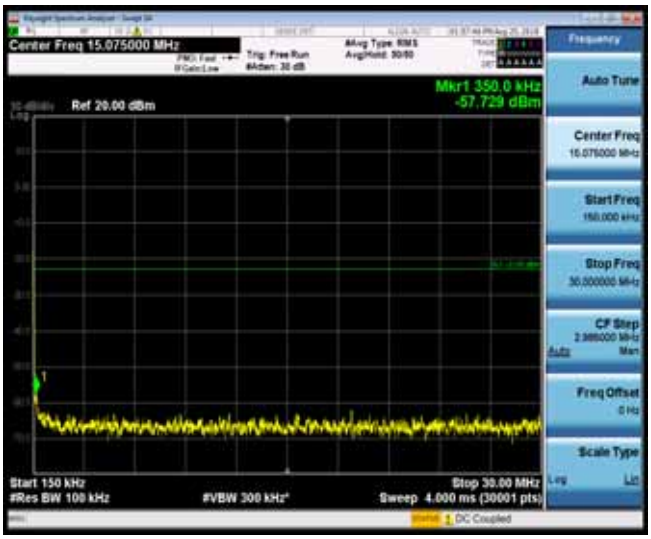

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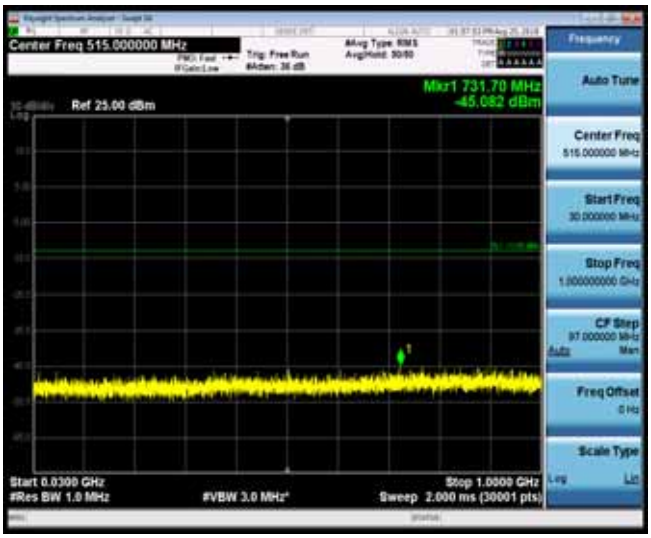

Band4_15MHz_QPSK_20175_1RB#0

Band4_15MHz_QPSK_20175_1RB#0

Band4_15MHz_QPSK_20175_1RB#0

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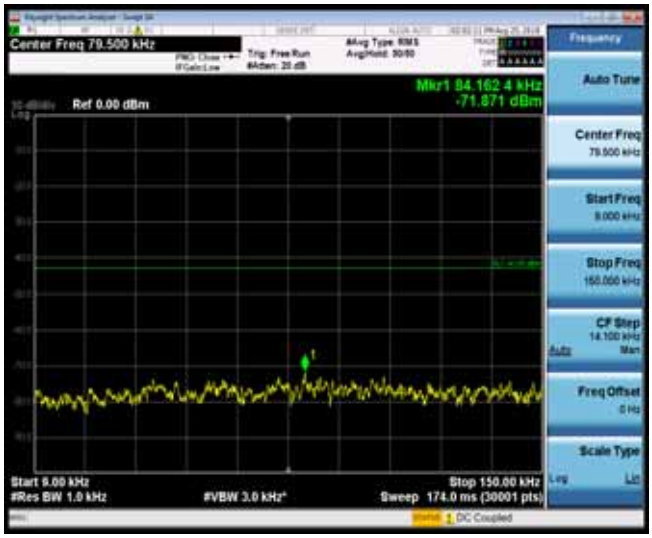

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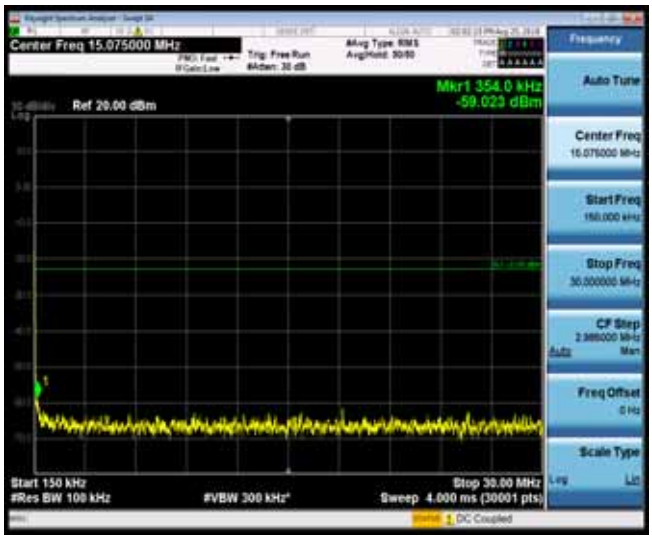
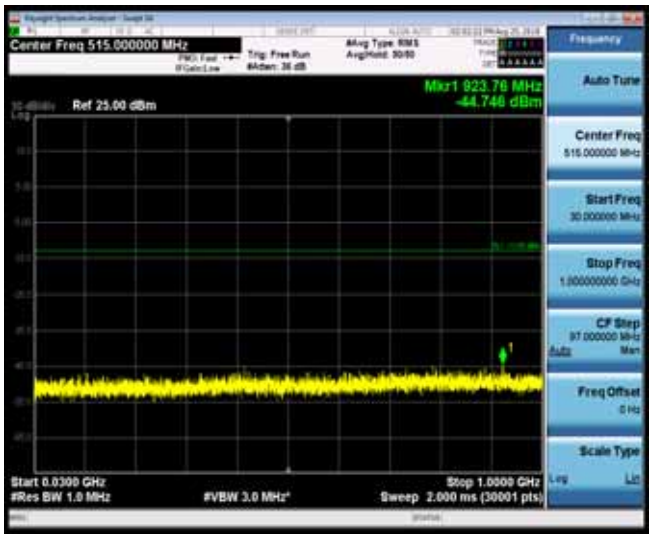


Band4_15MHz_QPSK_20325_1RB#0



Band4_15MHz_QPSK_20325_1RB#0

Band4_15MHz_QPSK_20325_1RB#0

Band4_15MHz_QPSK_20325_1RB#0

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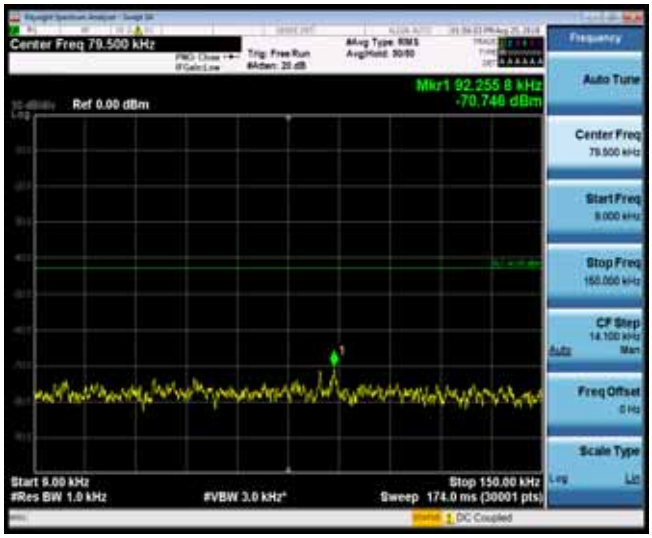

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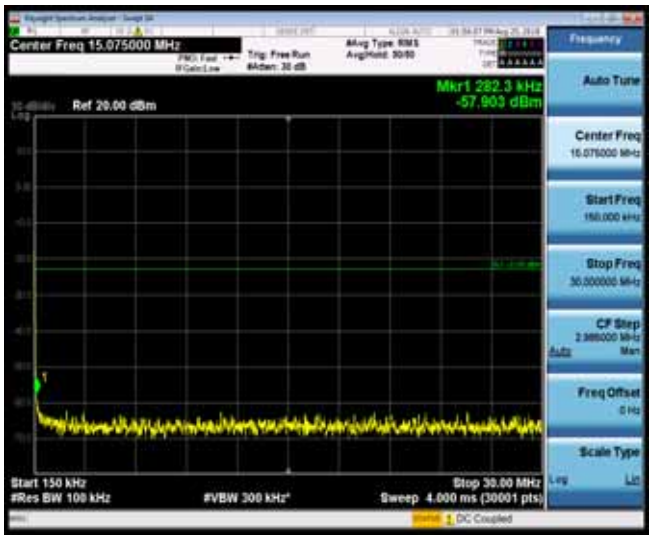

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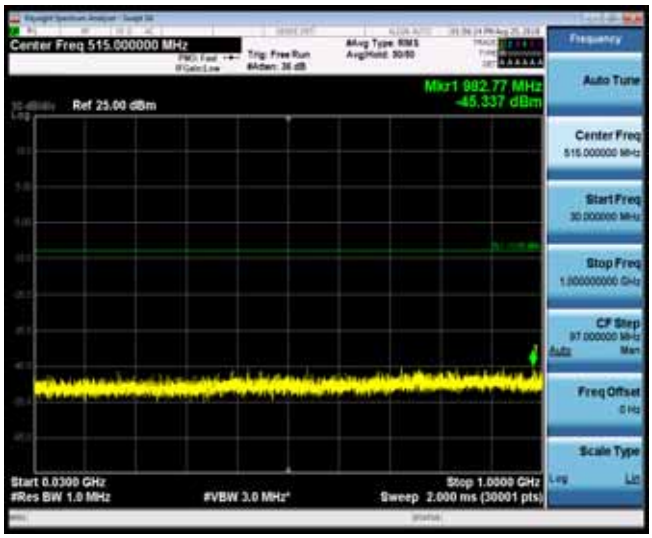

Band4_15MHz_16QAM_20025_1RB#0

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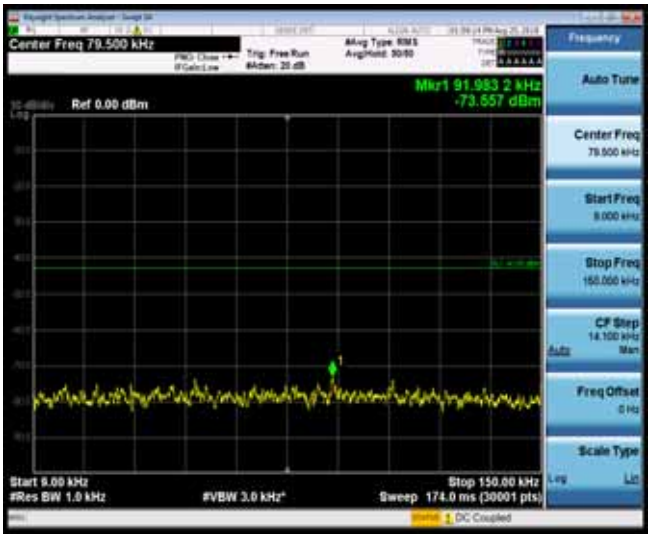

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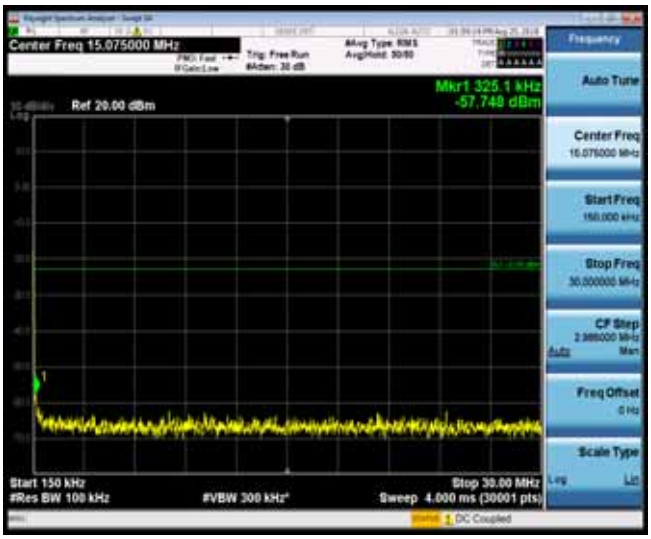

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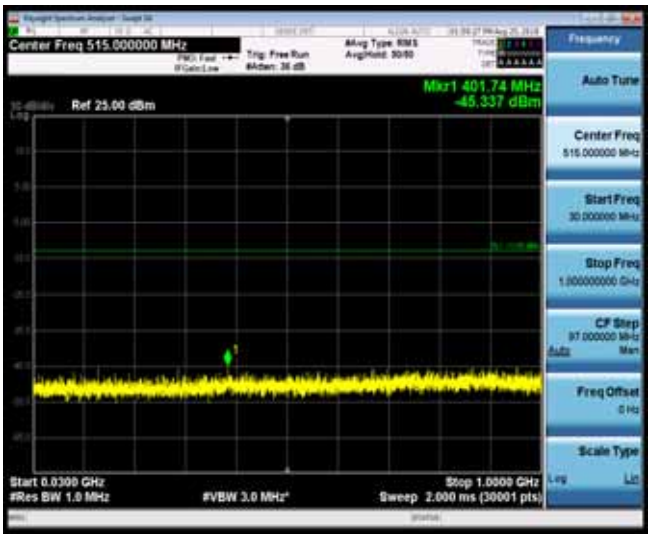

Band4_15MHz_16QAM_20175_1RB#0

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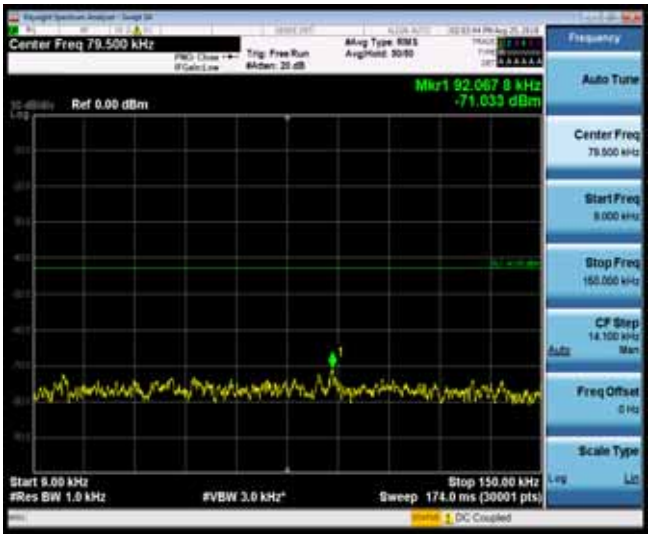

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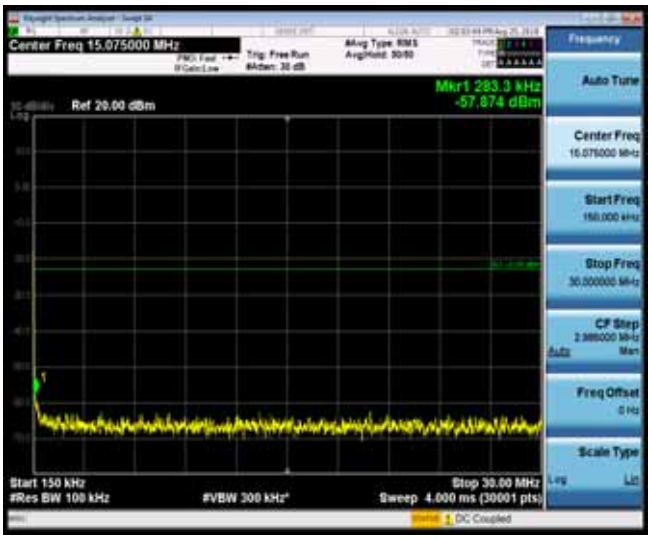

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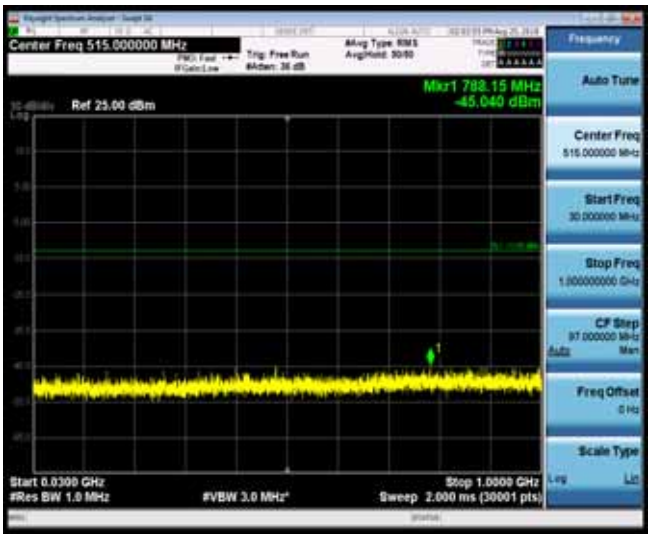

Band4_15MHz_16QAM_20325_1RB#0

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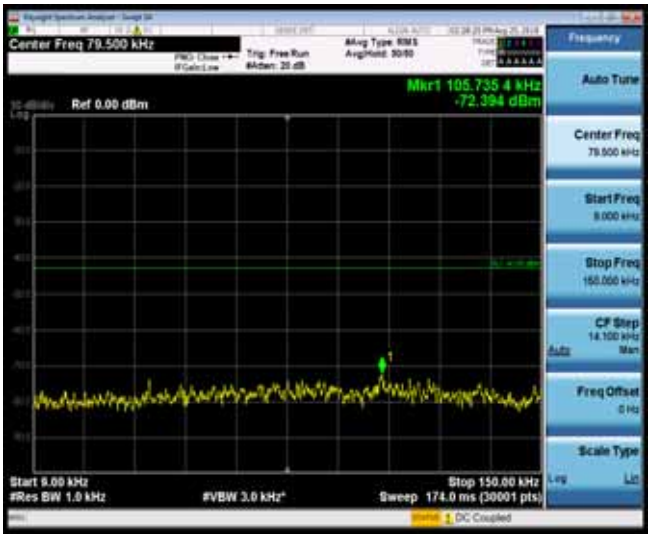

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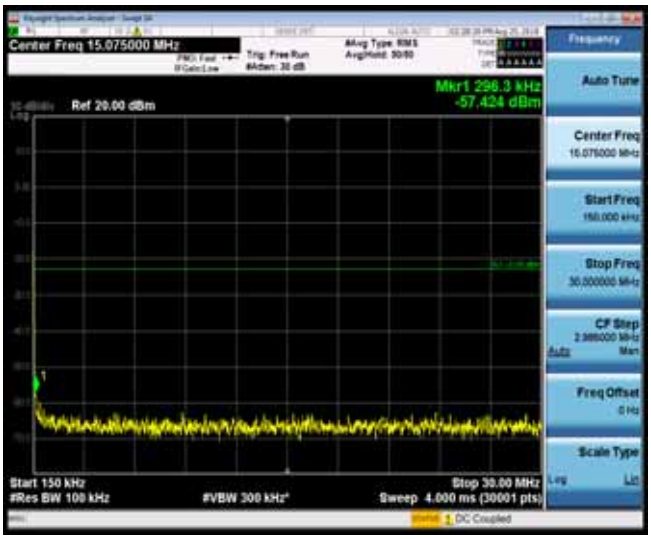

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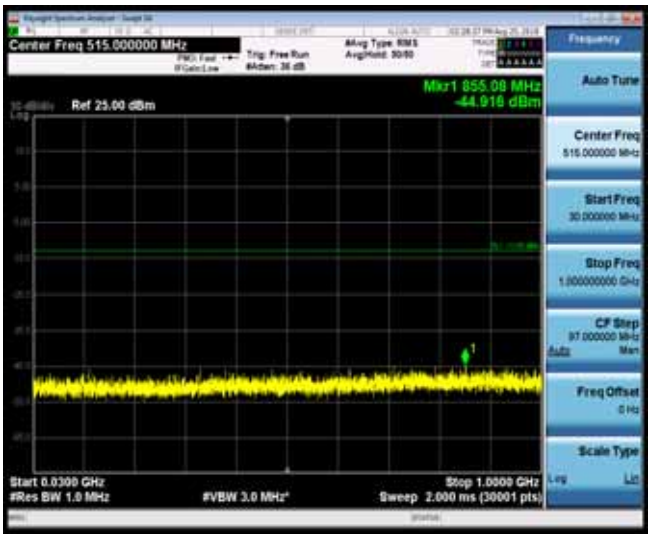

Band4_20MHz_QPSK_20050_1RB#0

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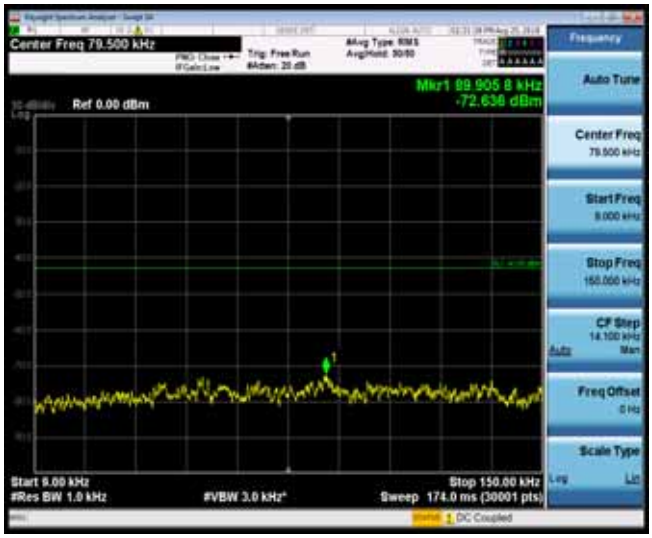

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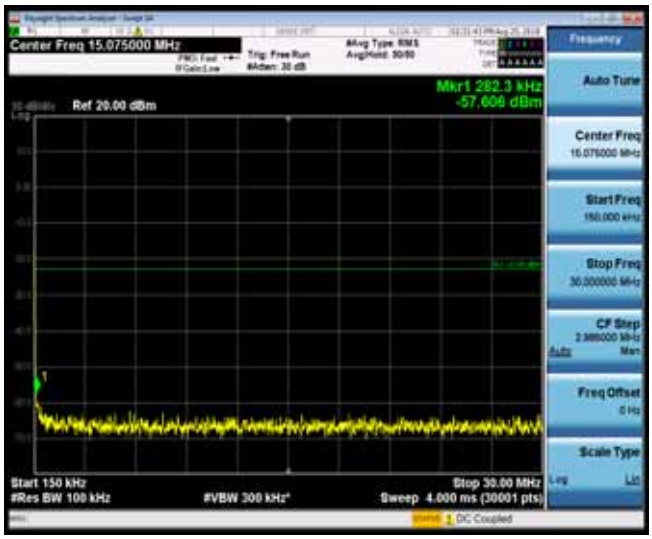

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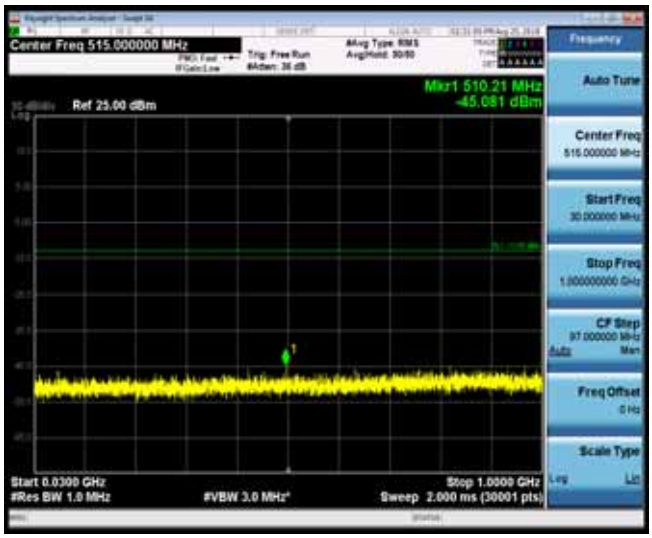
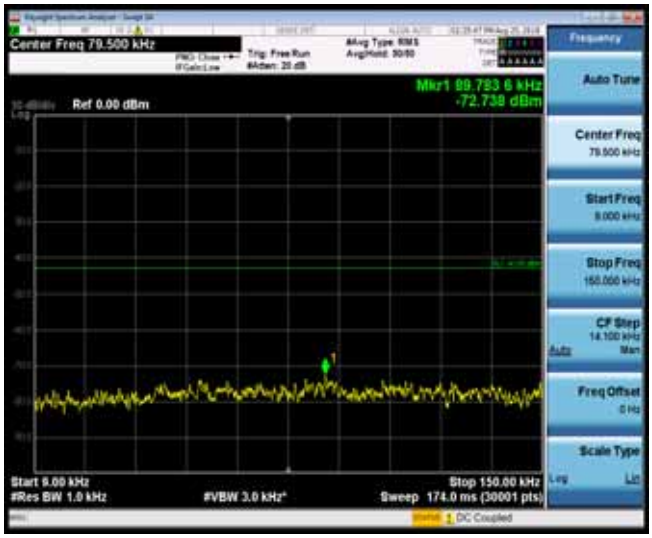


Band4_20MHz_QPSK_20175_1RB#0

Band4_20MHz_QPSK_20175_1RB#0

Band4_20MHz_QPSK_20175_1RB#0

Band4_20MHz_QPSK_20300_1RB#0



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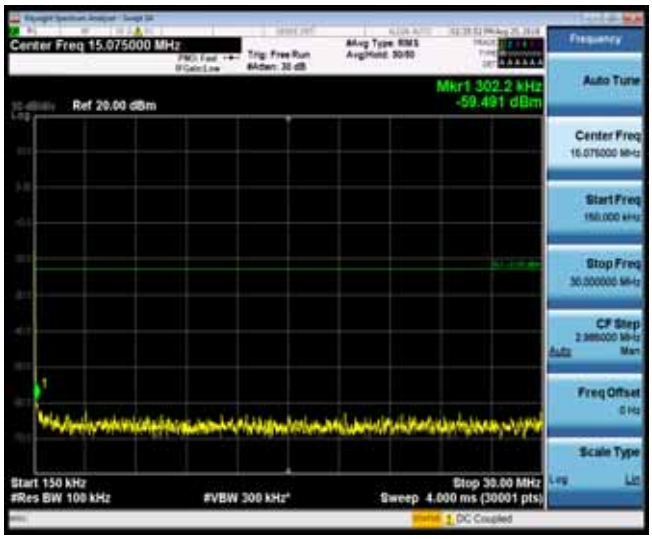
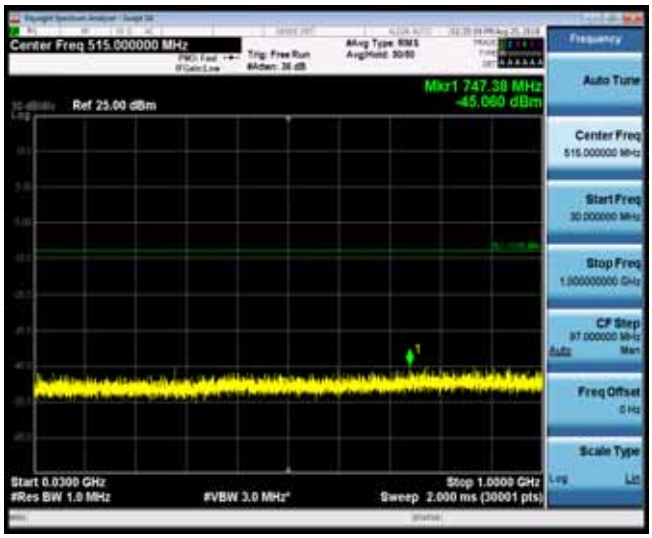


Band4_20MHz_QPSK_20300_1RB#0



Band4_20MHz_QPSK_20300_1RB#0

Band4_20MHz_QPSK_20300_1RB#0

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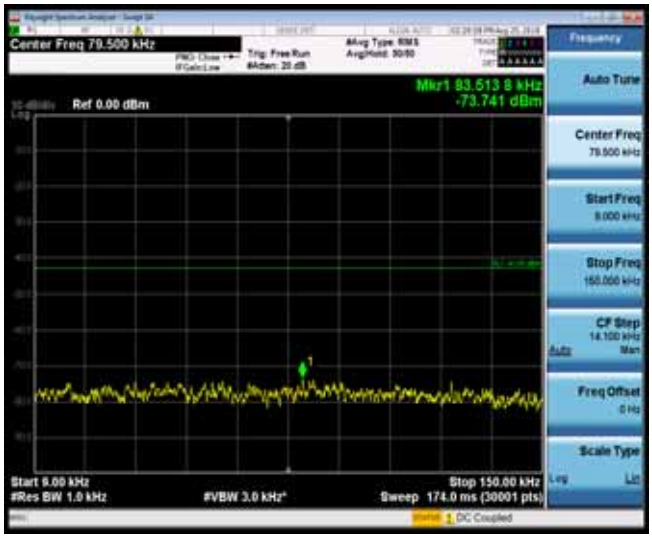
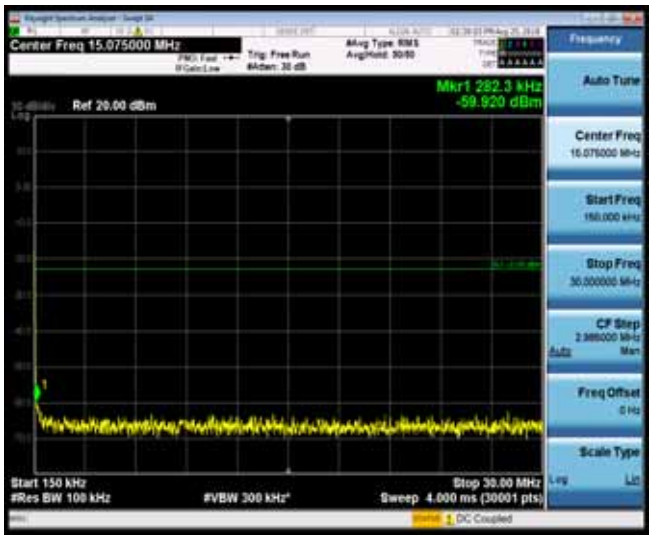
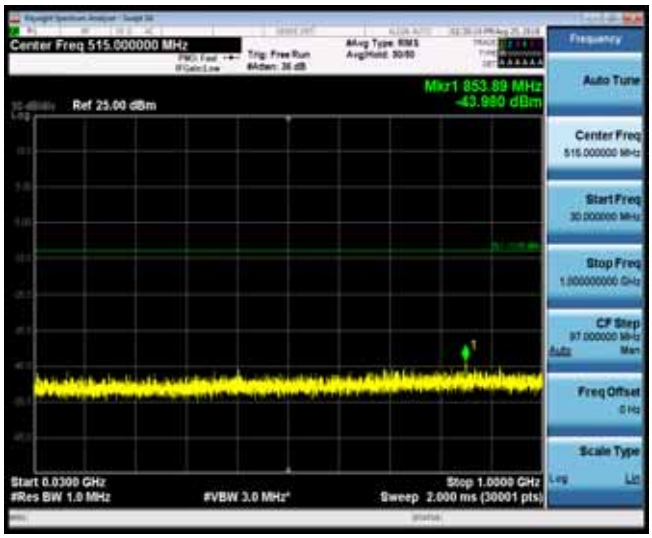


Band4_20MHz_16QAM_20050_1RB#0



Band4_20MHz_16QAM_20050_1RB#0



Band4_20MHz_16QAM_20050_1RB#0

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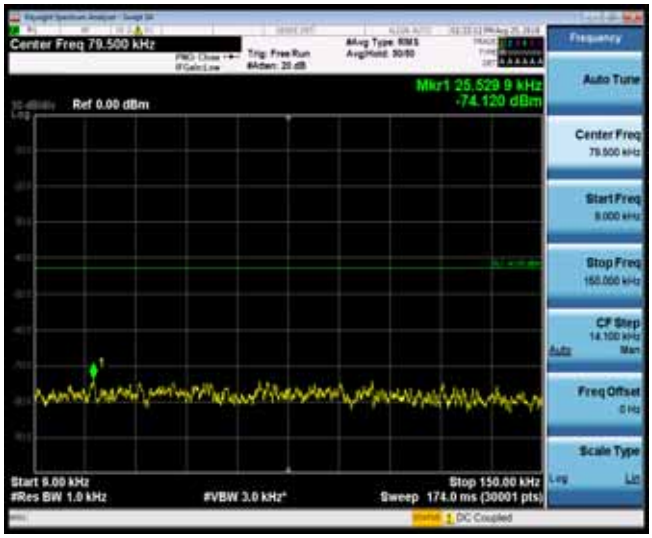

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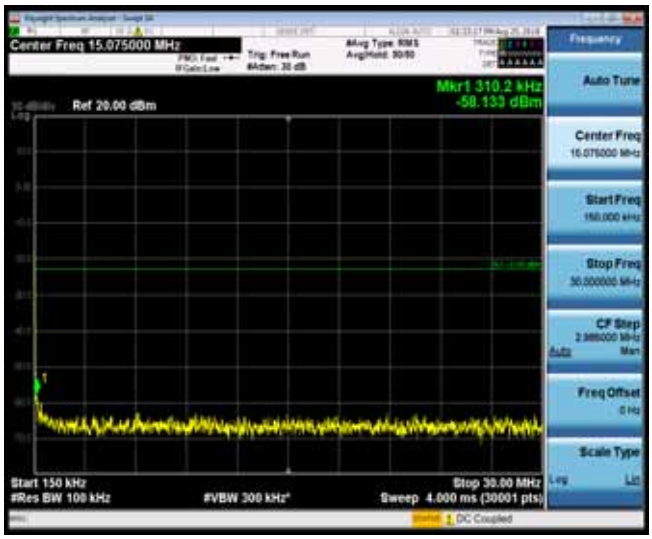
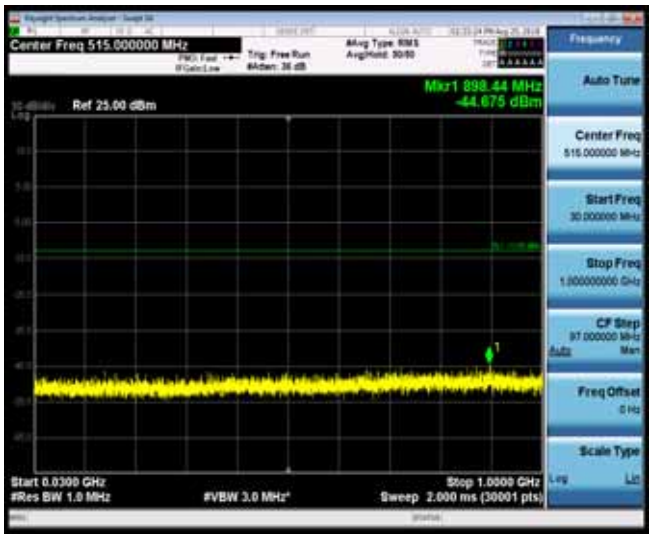


Band4_20MHz_16QAM_20175_1RB#0

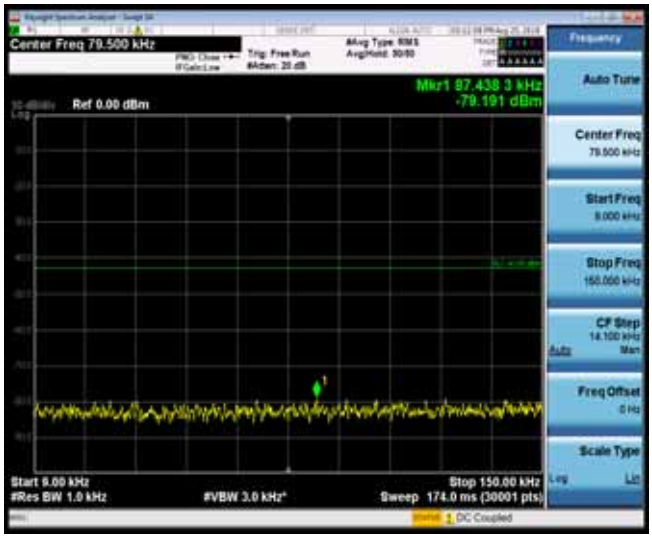


Band4_20MHz_16QAM_20175_1RB#0

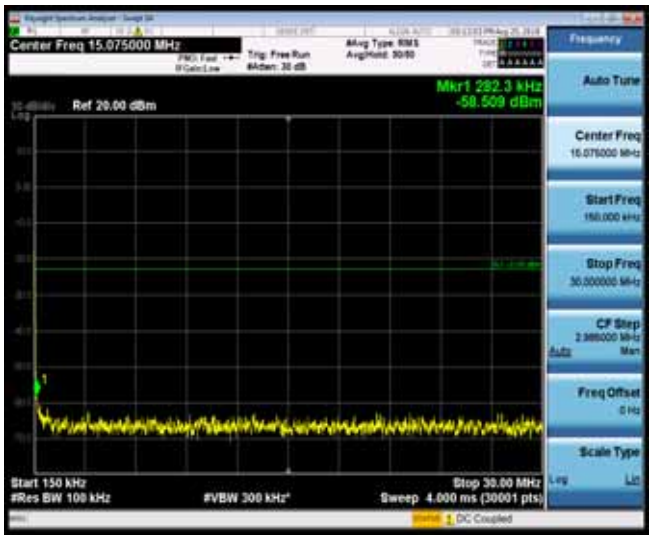
Band4_20MHz_16QAM_20175_1RB#0

Band4_20MHz_16QAM_20175_1RB#0

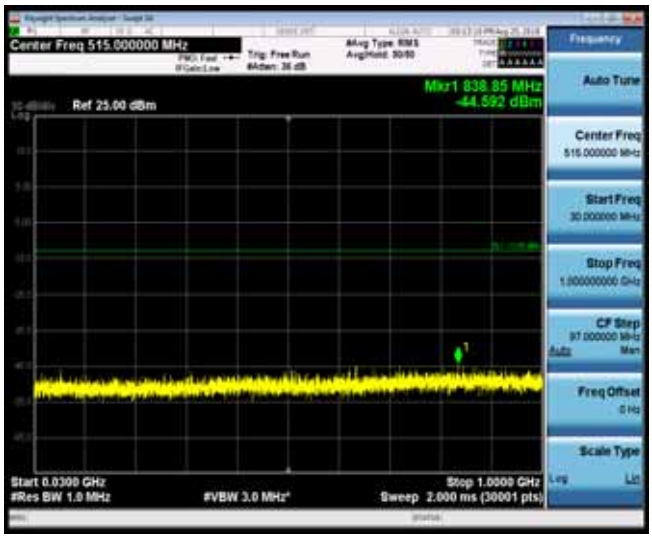
Band4_20MHz_16QAM_20300_1RB#0



Band4_20MHz_16QAM_20300_1RB#0



Band4_20MHz_16QAM_20300_1RB#0



Band4_20MHz_16QAM_20300_1RB#0

Band4_20MHz_16QAM_20300_1RB#0

Band4_20MHz_16QAM_20300_1RB#0

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	5MHz	QPSK	19975	25RB#0	VL	NT	-45.23	-0.026412	±2.5	PASS
Band4	5MHz	QPSK	19975	25RB#0	VN	NT	-45.33	-0.026470	±2.5	PASS
Band4	5MHz	QPSK	19975	25RB#0	VH	NT	-52.67	-0.030756	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VL	NT	-43.75	-0.025253	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VN	NT	-39.07	-0.022551	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VH	NT	-40.64	-0.023457	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	VL	NT	-61.20	-0.034922	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	VN	NT	-47.85	-0.027304	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	VH	NT	-61.96	-0.035355	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	VL	NT	-54.83	-0.032018	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	VN	NT	-55.19	-0.032228	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	VH	NT	-58.97	-0.034435	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	VL	NT	-56.85	-0.032814	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	VN	NT	-41.94	-0.024208	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	VH	NT	-51.87	-0.029939	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	VL	NT	-62.36	-0.035583	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	VN	NT	-52.39	-0.029894	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	VH	NT	-61.48	-0.035081	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	VL	NT	-56.49	-0.032939	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	VN	NT	-42.60	-0.024840	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	VH	NT	-63.53	-0.037044	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VL	NT	-46.15	-0.026638	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VN	NT	-36.33	-0.020970	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VH	NT	-43.27	-0.024975	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	VL	NT	-61.63	-0.035217	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	VN	NT	-47.44	-0.027109	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	VH	NT	-63.26	-0.036149	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	VL	NT	-58.72	-0.034239	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	VN	NT	-60.54	-0.035300	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	VH	NT	-58.84	-0.034309	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	VL	NT	-44.79	-0.025853	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	VN	NT	-44.86	-0.025893	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	VH	NT	-44.62	-0.025755	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	VL	NT	-61.13	-0.034931	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	VN	NT	-60.94	-0.034823	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	VH	NT	-59.21	-0.033834	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	VL	NT	-46.43	-0.027033	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	VN	NT	-43.42	-0.025281	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	VH	NT	-46.19	-0.026894	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VL	NT	-41.20	-0.023781	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VN	NT	-40.34	-0.023284	±2.5	PASS

Band4	15MHz	QPSK	20175	75RB#0	VH	NT	-41.97	-0.024225	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	VL	NT	-49.58	-0.028372	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	VN	NT	-44.92	-0.025705	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	VH	NT	-58.31	-0.033368	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	VL	NT	-60.02	-0.034946	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	VN	NT	-63.41	-0.036920	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	VH	NT	-57.75	-0.033624	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	VL	NT	-64.89	-0.037455	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	VN	NT	-60.44	-0.034886	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	VH	NT	-57.28	-0.033062	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	VL	NT	-58.02	-0.033202	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	VN	NT	-57.84	-0.033099	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	VH	NT	-59.44	-0.034014	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-51.88	-0.030163	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-46.28	-0.026907	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-48.92	-0.028442	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-49.84	-0.028768	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-48.61	-0.028058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-54.57	-0.031498	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-61.11	-0.035020	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-63.16	-0.036195	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-56.81	-0.032556	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-52.37	-0.030448	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-56.35	-0.032762	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-58.15	-0.033808	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-59.85	-0.034545	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-62.24	-0.035925	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-59.81	-0.034522	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-53.00	-0.030372	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-60.00	-0.034384	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-58.39	-0.033461	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	5MHz	QPSK	19975	25RB#0	NV	-30	-47.14	-0.027527	±2.5	PASS
Band4	5MHz	QPSK	19975	25RB#0	NV	-20	-42.04	-0.024549	±2.5	PASS
Band4	5MHz	QPSK	19975	25RB#0	NV	0	-35.10	-0.020496	±2.5	PASS
Band4	5MHz	QPSK	19975	25RB#0	NV	10	-43.66	-0.025495	±2.5	PASS
Band4	5MHz	QPSK	19975	25RB#0	NV	20	-52.63	-0.030733	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	-30	-44.49	-0.025680	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	-20	-41.58	-0.024000	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	0	-43.60	-0.025166	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	10	-49.57	-0.028612	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	20	-45.46	-0.026240	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	NV	-30	-59.94	-0.034203	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	NV	-20	-60.05	-0.034265	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	NV	0	-59.25	-0.033809	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	NV	10	-53.14	-0.030322	±2.5	PASS
Band4	5MHz	QPSK	20375	25RB#0	NV	20	-61.77	-0.035247	±2.5	PASS

Band4	5MHz	16QAM	19975	25RB#0	NV	-30	-58.02	-0.033880	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	NV	-20	-45.39	-0.026505	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	NV	0	-45.15	-0.026365	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	NV	10	-59.18	-0.034558	±2.5	PASS
Band4	5MHz	16QAM	19975	25RB#0	NV	20	-53.94	-0.031498	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	NV	-30	-57.45	-0.033160	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	NV	-20	-42.31	-0.024421	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	NV	0	-46.48	-0.026828	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	NV	10	-57.84	-0.033385	±2.5	PASS
Band4	5MHz	16QAM	20175	25RB#0	NV	20	-55.26	-0.031896	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	NV	-30	-62.71	-0.035783	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	NV	-20	-60.87	-0.034733	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	NV	0	-40.74	-0.023247	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	NV	10	-59.94	-0.034203	±2.5	PASS
Band4	5MHz	16QAM	20375	25RB#0	NV	20	-59.54	-0.033974	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	NV	-30	-58.65	-0.034198	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	NV	-20	-56.32	-0.032840	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	NV	0	-57.25	-0.033382	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	NV	10	-62.93	-0.036694	±2.5	PASS
Band4	10MHz	QPSK	20000	50RB#0	NV	20	-58.21	-0.033942	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	-30	-43.12	-0.024889	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	-20	-45.42	-0.026216	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	0	-44.26	-0.025547	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	10	-43.63	-0.025183	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	20	-43.02	-0.024831	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	NV	-30	-61.38	-0.035074	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	NV	-20	-63.13	-0.036074	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	NV	0	-58.41	-0.033377	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	NV	10	-60.65	-0.034657	±2.5	PASS
Band4	10MHz	QPSK	20350	50RB#0	NV	20	-57.98	-0.033131	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	NV	-30	-61.84	-0.036058	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	NV	-20	-59.81	-0.034875	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	NV	0	-59.85	-0.034898	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	NV	10	-48.28	-0.028152	±2.5	PASS
Band4	10MHz	16QAM	20000	50RB#0	NV	20	-62.41	-0.036391	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	NV	-30	-56.48	-0.032600	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	NV	-20	-45.89	-0.026488	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	NV	0	-41.84	-0.024150	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	NV	10	-57.55	-0.033218	±2.5	PASS
Band4	10MHz	16QAM	20175	50RB#0	NV	20	-58.52	-0.033778	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	NV	-30	-60.93	-0.034817	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	NV	-20	-59.49	-0.033994	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	NV	0	-59.02	-0.033726	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	NV	10	-57.28	-0.032731	±2.5	PASS
Band4	10MHz	16QAM	20350	50RB#0	NV	20	-52.94	-0.030251	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	NV	-30	-47.94	-0.027913	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	NV	-20	-48.94	-0.028495	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	NV	0	-43.66	-0.025421	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	NV	10	-61.78	-0.035971	±2.5	PASS
Band4	15MHz	QPSK	20025	75RB#0	NV	20	-42.84	-0.024943	±2.5	PASS

Band4	15MHz	QPSK	20175	75RB#0	NV	-30	-46.71	-0.026961	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	-20	-42.24	-0.024381	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	0	-50.73	-0.029281	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	10	-43.39	-0.025045	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	20	-44.70	-0.025801	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	NV	-30	-49.44	-0.028292	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	NV	-20	-57.32	-0.032801	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	NV	0	-45.40	-0.025980	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	NV	10	-47.21	-0.027016	±2.5	PASS
Band4	15MHz	QPSK	20325	75RB#0	NV	20	-43.76	-0.025041	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	NV	-30	-58.57	-0.034102	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	NV	-20	-61.53	-0.035825	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	NV	0	-63.14	-0.036763	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	NV	10	-59.88	-0.034865	±2.5	PASS
Band4	15MHz	16QAM	20025	75RB#0	NV	20	-55.42	-0.032268	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	NV	-30	-58.79	-0.033934	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	NV	-20	-61.25	-0.035354	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	NV	0	-59.49	-0.034338	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	NV	10	-54.79	-0.031625	±2.5	PASS
Band4	15MHz	16QAM	20175	75RB#0	NV	20	-46.36	-0.026759	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	NV	-30	-53.43	-0.030575	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	NV	-20	-62.38	-0.035697	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	NV	0	-54.17	-0.030999	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	NV	10	-53.63	-0.030690	±2.5	PASS
Band4	15MHz	16QAM	20325	75RB#0	NV	20	-57.69	-0.033013	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-45.59	-0.026506	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-45.30	-0.026337	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-45.52	-0.026465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-45.86	-0.026663	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-53.66	-0.031198	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-64.62	-0.037299	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-53.34	-0.030788	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-53.67	-0.030978	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-52.44	-0.030268	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-53.70	-0.030996	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-55.07	-0.031559	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-54.09	-0.030997	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-52.73	-0.030218	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-50.63	-0.029014	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-52.37	-0.030011	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-56.26	-0.032709	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-53.34	-0.031012	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-52.91	-0.030762	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-56.13	-0.032634	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-52.90	-0.030756	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-55.68	-0.032139	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-55.58	-0.032081	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-62.33	-0.035977	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-59.84	-0.034540	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-57.58	-0.033235	±2.5	PASS

Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-63.57	-0.036430	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-58.38	-0.033456	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-55.56	-0.031840	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-62.13	-0.035605	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-54.22	-0.031072	±2.5	PASS

Band 12:

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	5MHz	QPSK	23035	1RB#0	23.51	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.59	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.54	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.52	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.55	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.57	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.42	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.42	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.39	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.29	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.52	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.51	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.39	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.39	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.38	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.22	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.99	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.17	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.04	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.9	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.03	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.88	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.92	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.94	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.04	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.94	PASS
Band12	5MHz	16QAM	23035	12RB#13	22	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.94	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.88	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.67	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.78	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.68	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.59	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.75	PASS

Band12	5MHz	16QAM	23155	1RB#0	23.09	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.87	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.7	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.53	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.39	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.34	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.4	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.58	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.46	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.49	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.48	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.42	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.43	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.35	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.45	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.48	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.28	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.45	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.41	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.33	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.22	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.43	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.41	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.97	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.38	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.24	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.01	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.11	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.43	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.46	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.39	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.76	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.74	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.78	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.75	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.02	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.91	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.54	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.85	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.78	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.62	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.69	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.07	PASS

Band12	10MHz	16QAM	23130	1RB#24	22.83	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.43	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.7	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.53	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.41	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.4	PASS

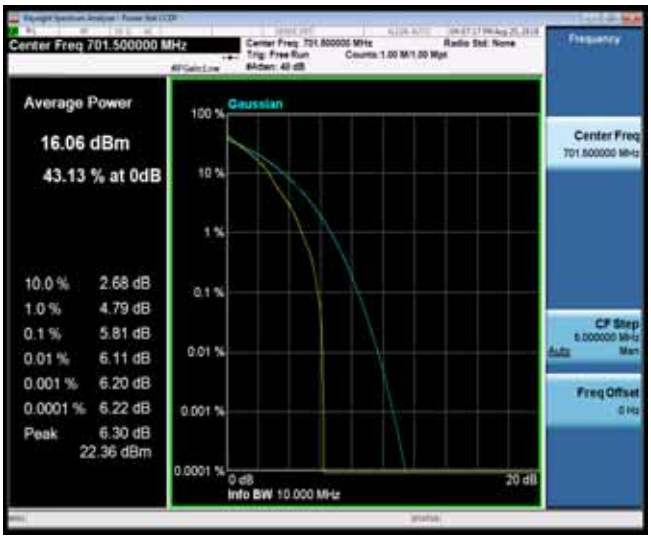
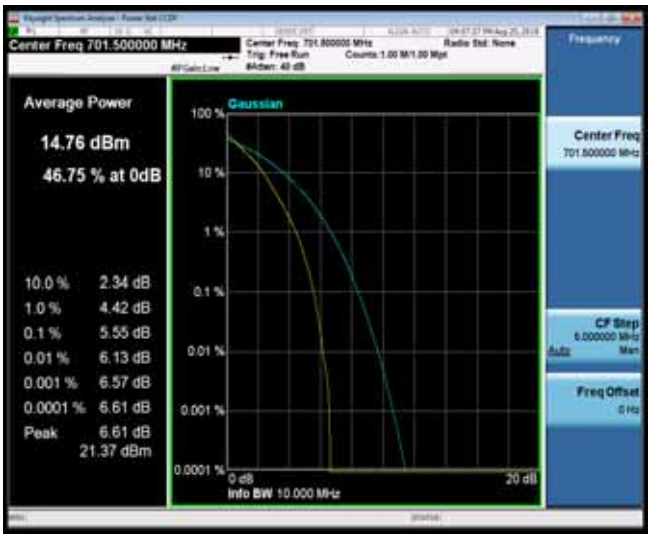
Appendix B: Peak-to-Average Ratio(CCDF)

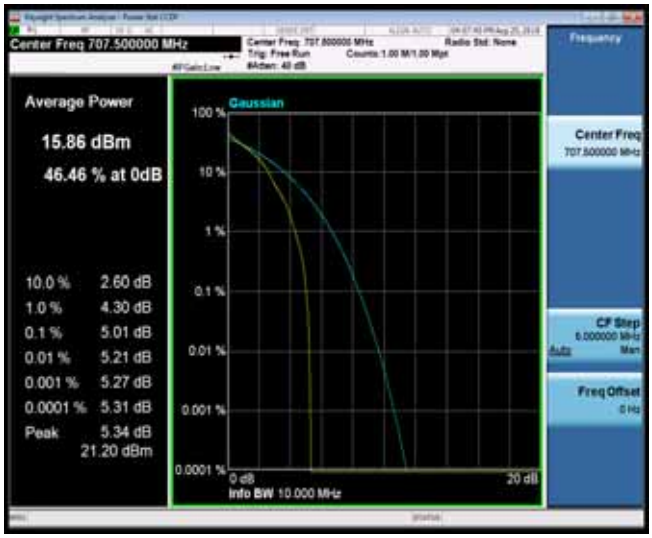
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	5MHz	QPSK	23035	1RB#0	5.81	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.55	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.01	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.50	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.98	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.32	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	6.20	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.14	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.79	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.17	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.58	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.92	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	5.53	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.60	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.70	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.57	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.07	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.43	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	6.14	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.22	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	4.97	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.20	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.70	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.12	13	PASS

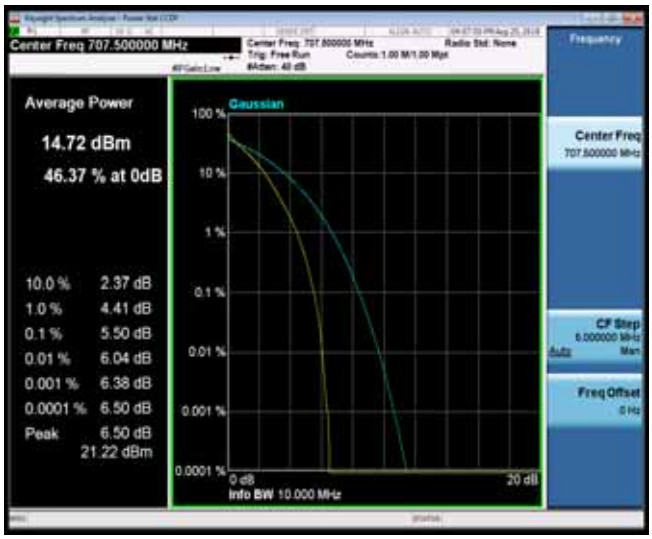
Band	Bandwidth	Channel	Modulation	RB Configuration	EIRP (dBm)	Verdict
Band12	5MHz	23035	QPSK	1RB#12	25.82	PASS
Band12	5MHz	23095	QPSK	1RB#0	25.65	PASS
Band12	5MHz	23155	QPSK	1RB#0	25.61	PASS
Band12	10MHz	23060	QPSK	1RB#0	25.81	PASS
Band12	10MHz	23095	QPSK	1RB#24	25.71	PASS
Band12	10MHz	23130	QPSK	1RB#0	25.66	PASS

Test Graphs

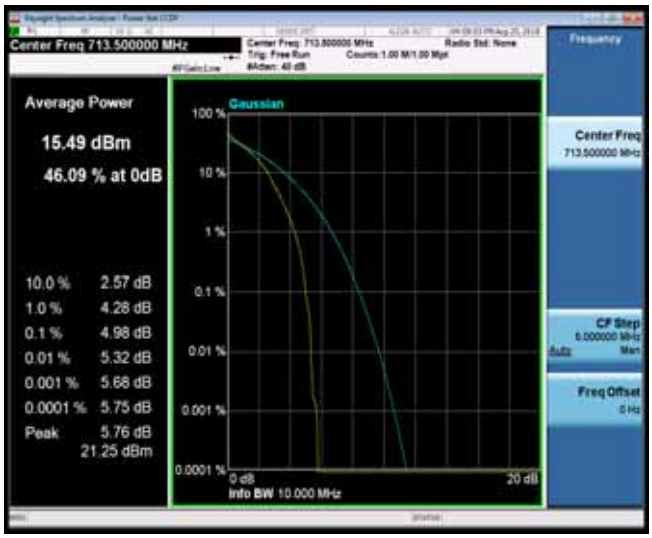
Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_25RB#0

Band12_5MHz_QPSK_23095_1RB#0



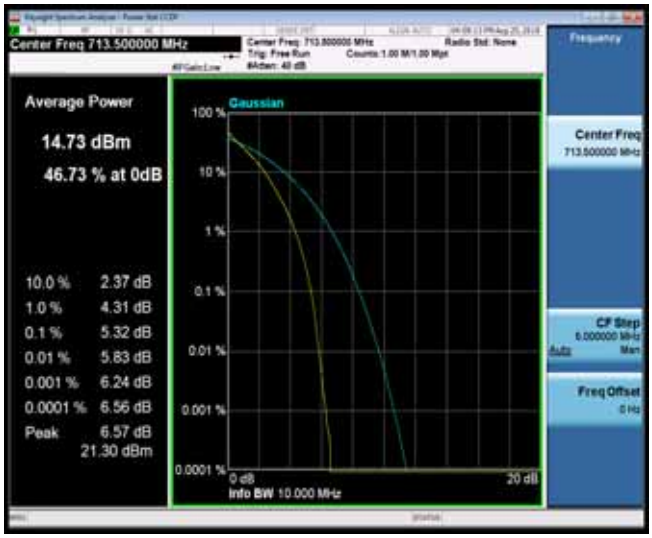
Band12_5MHz_QPSK_23095_25RB#0



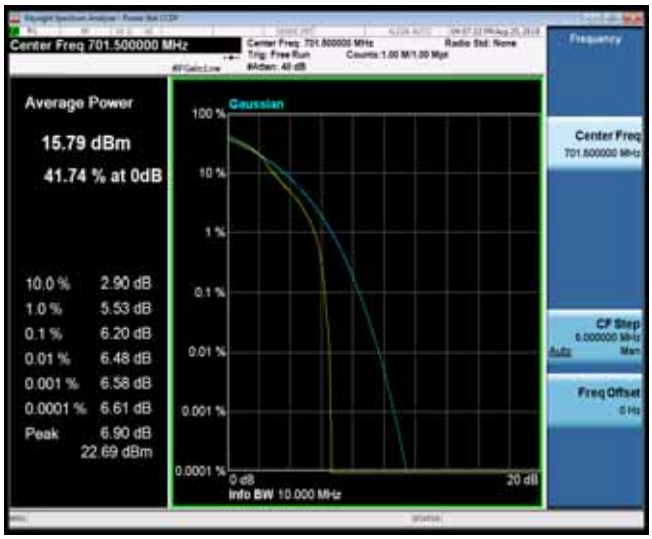
Band12_5MHz_QPSK_23155_1RB#0



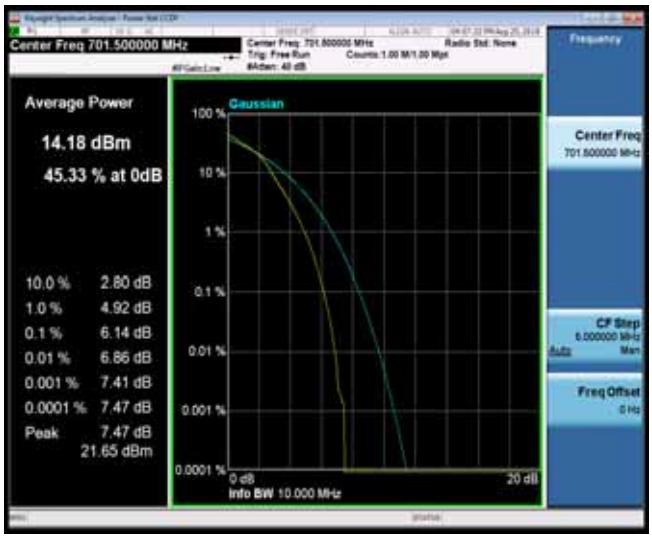
Band12_5MHz_QPSK_23155_25RB#0



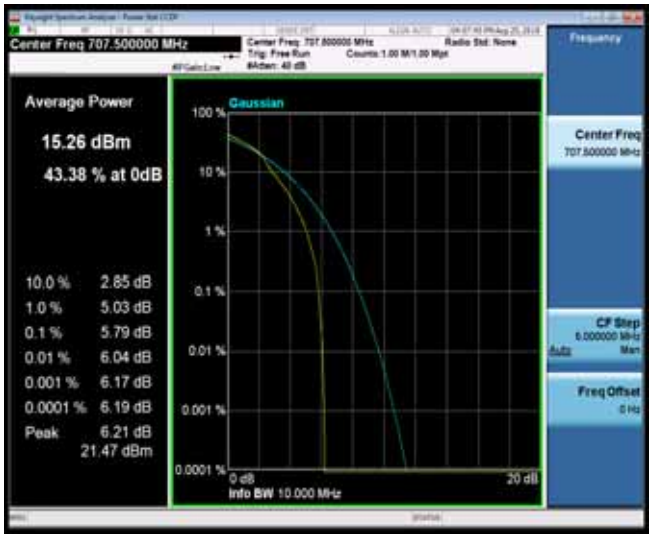
Band12_5MHz_16QAM_23035_1RB#0



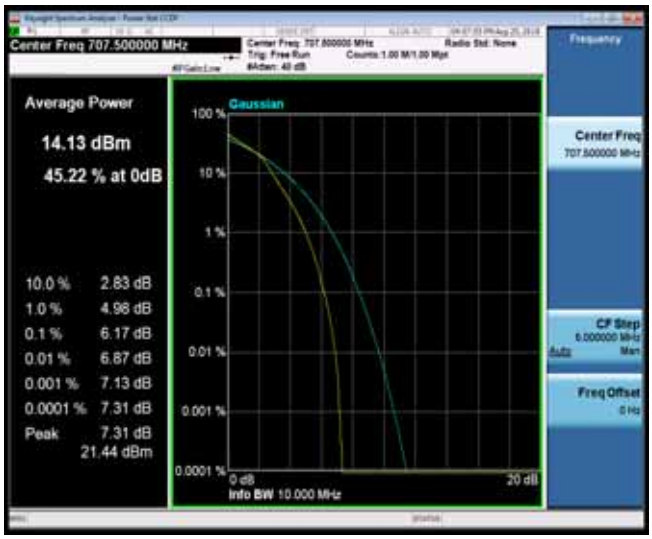
Band12_5MHz_16QAM_23035_25RB#0



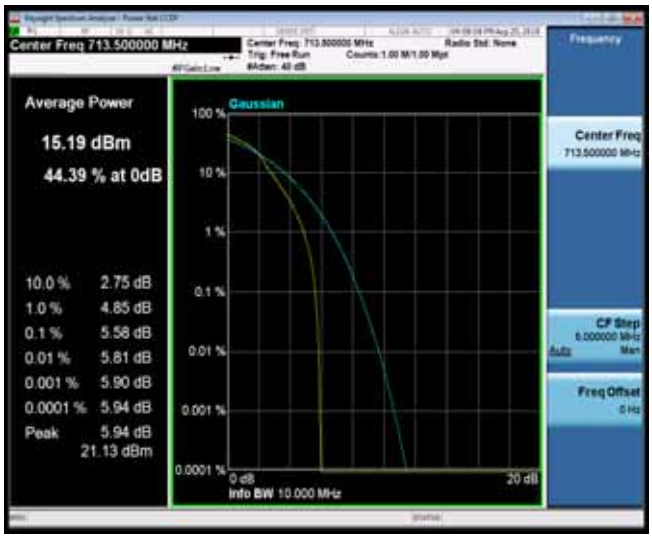
Band12_5MHz_16QAM_23095_1RB#0



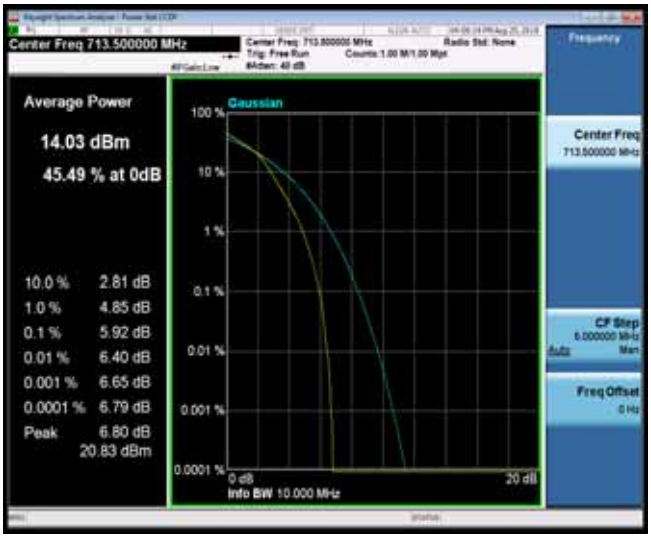
Band12_5MHz_16QAM_23095_25RB#0



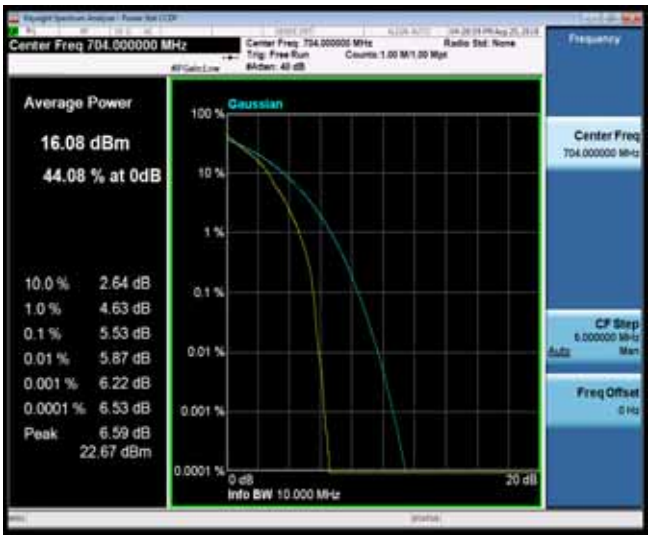
Band12_5MHz_16QAM_23155_1RB#0



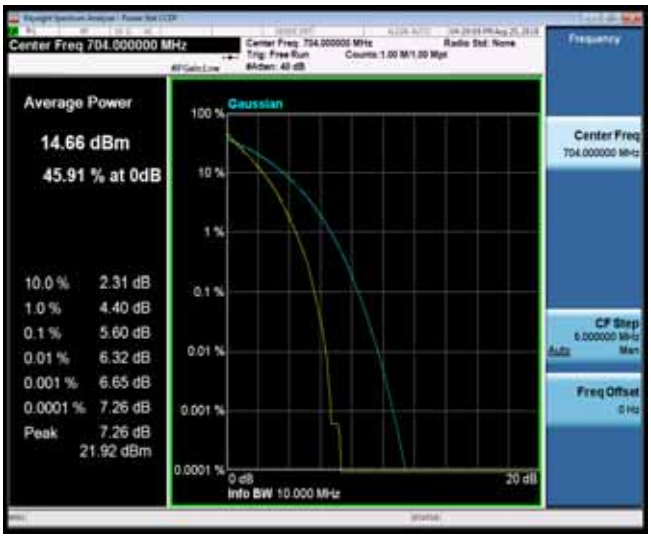
Band12_5MHz_16QAM_23155_25RB#0



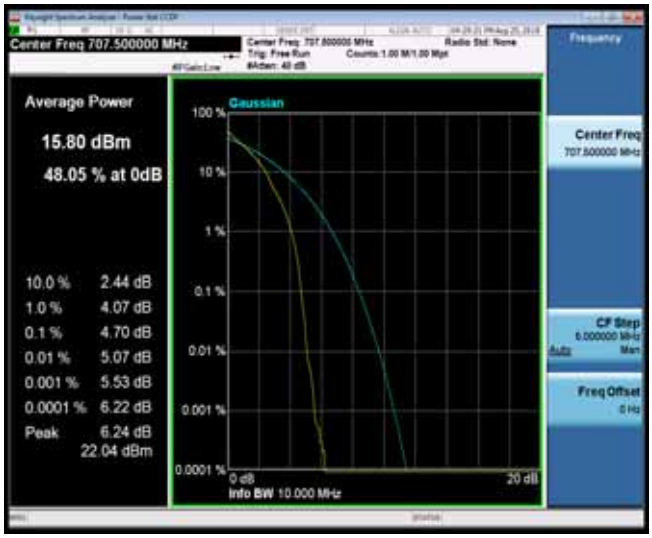
Band12_10MHz_QPSK_23060_1RB#0



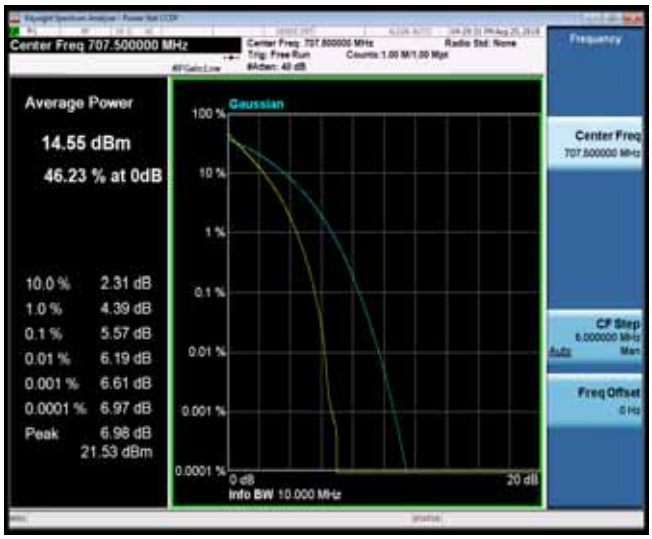
Band12_10MHz_QPSK_23060_50RB#0



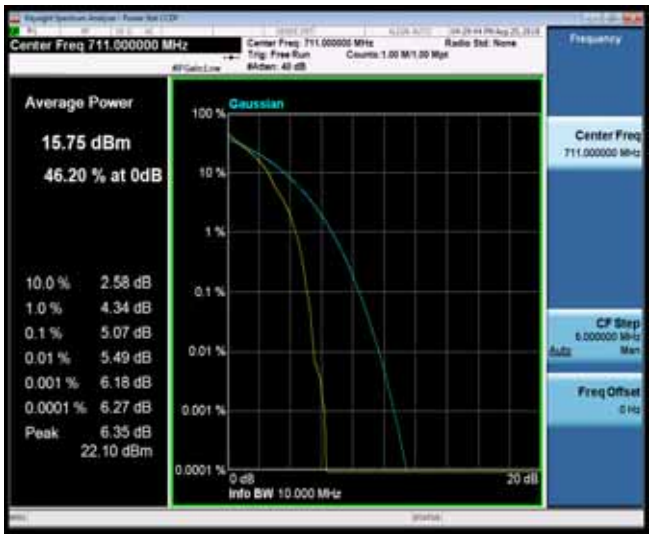
Band12_10MHz_QPSK_23095_1RB#0



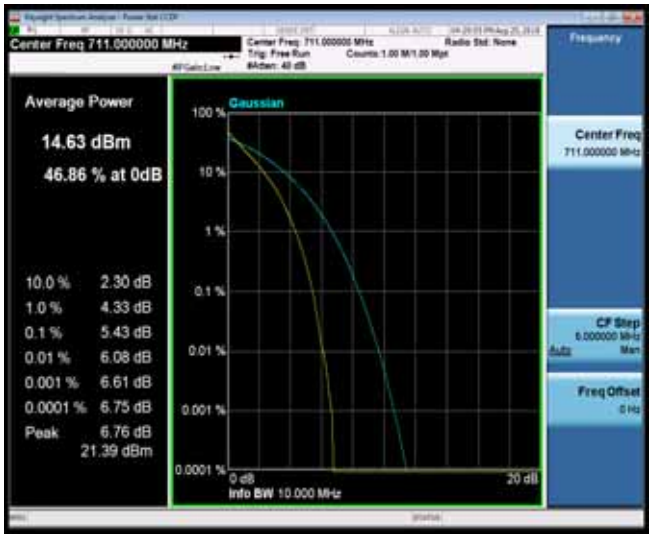
Band12_10MHz_QPSK_23095_50RB#0



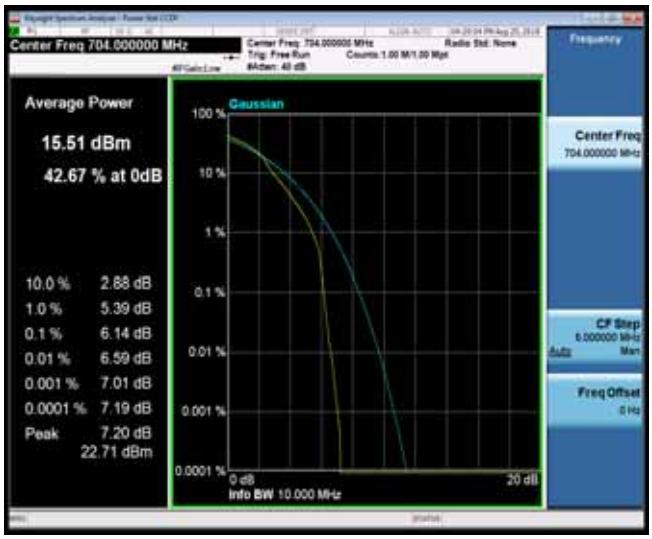
Band12_10MHz_QPSK_23130_1RB#0



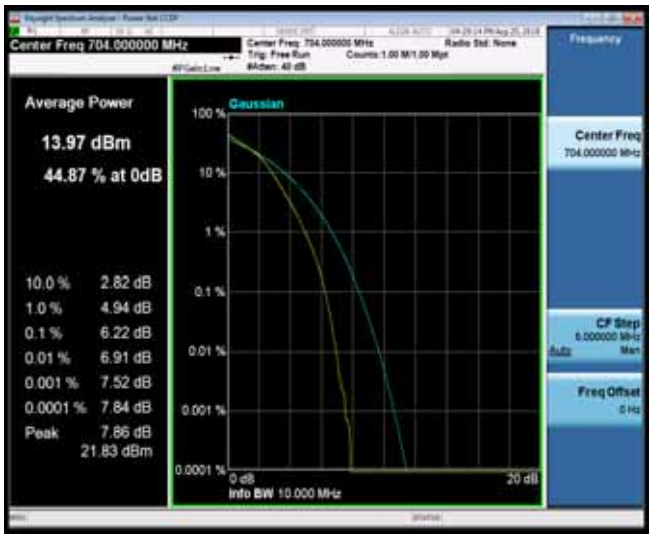
Band12_10MHz_QPSK_23130_50RB#0



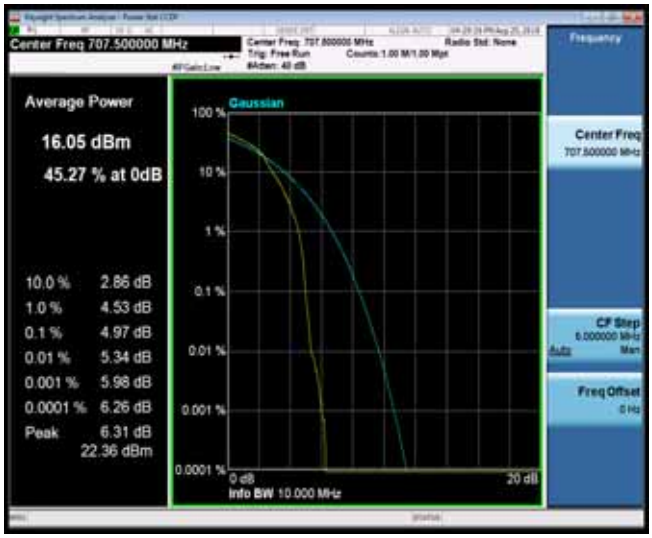
Band12_10MHz_16QAM_23060_1RB#0



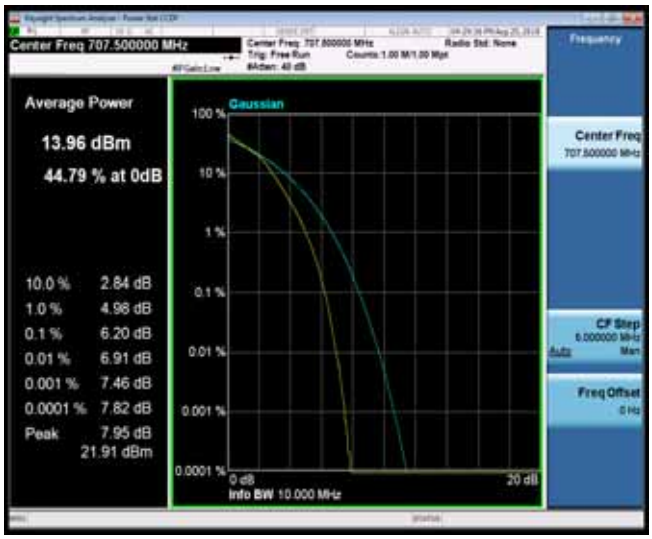
Band12_10MHz_16QAM_23060_50RB#0



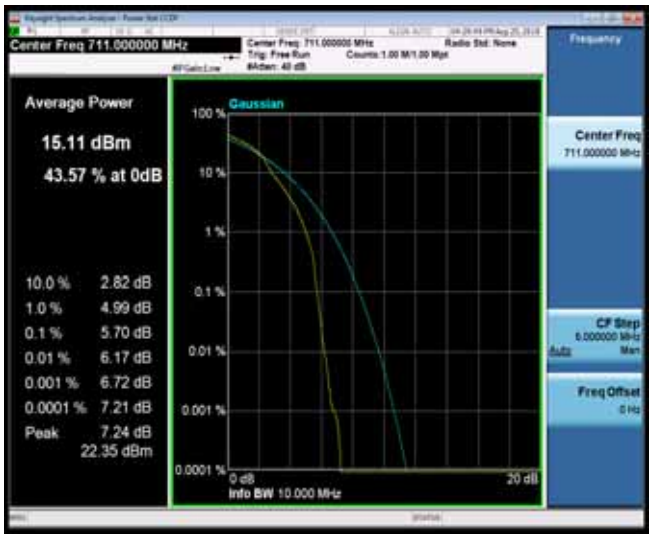
Band12_10MHz_16QAM_23095_1RB#0



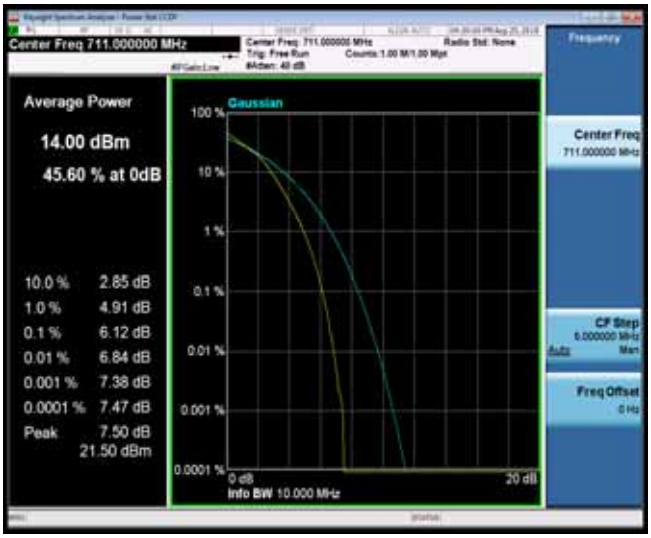
Band12_10MHz_16QAM_23095_50RB#0



Band12_10MHz_16QAM_23130_1RB#0



Band12_10MHz_16QAM_23130_50RB#0

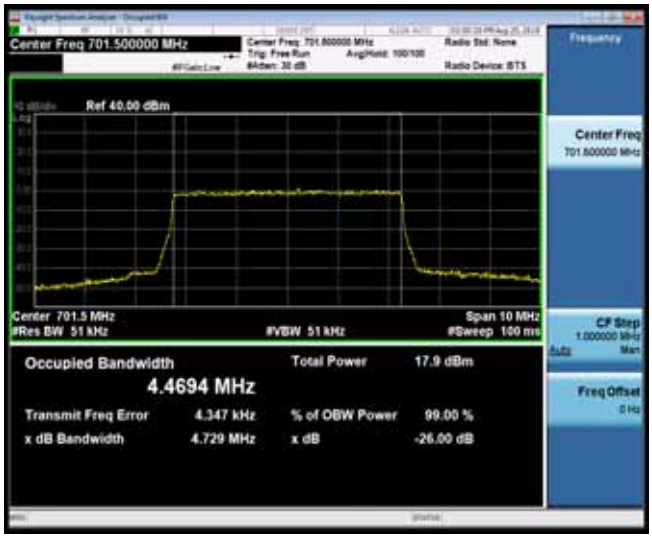
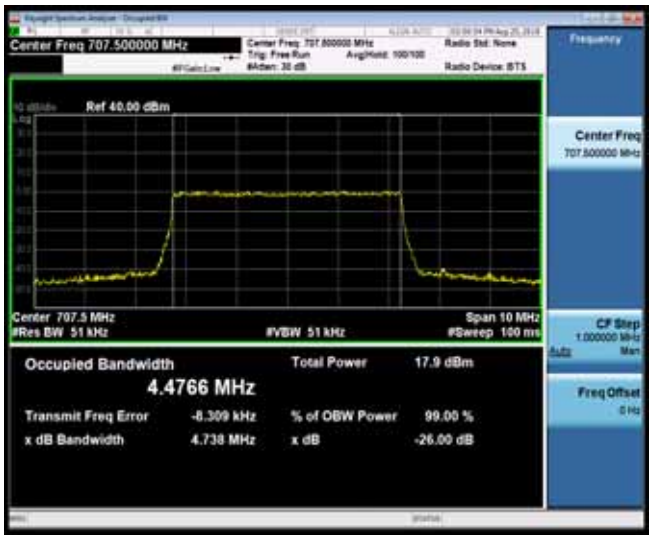

Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
#Atten: 40 dB
Radio Std: None
Frequency
Average Power
14.00 dBm
45.60 % at 0dB
10.0 % 2.85 dB
1.0 % 4.91 dB
0.1 % 6.12 dB
0.01 % 6.84 dB
0.001 % 7.38 dB
0.0001 % 7.47 dB
Peak 7.50 dB
21.50 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 10.000 MHz
Center Freq
711.000000 MHz
CF Step
Auto
Man
Freq Offset
0 Hz

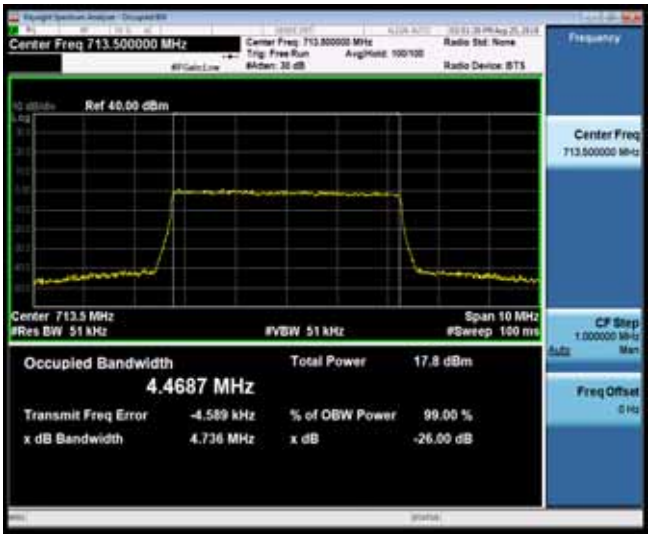
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

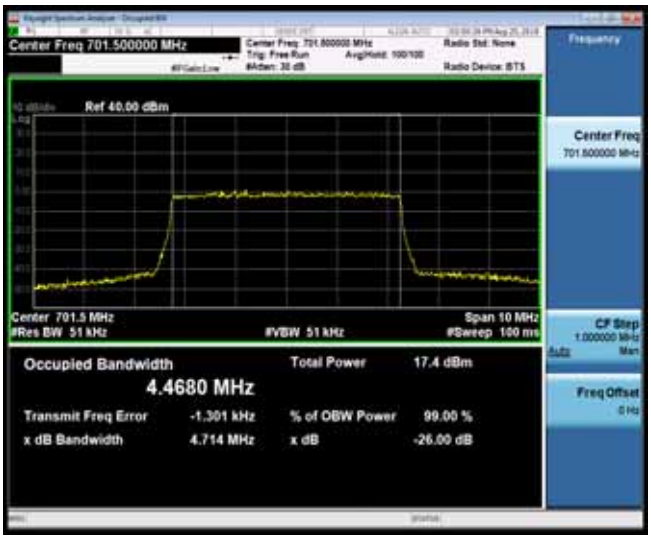
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	5MHz	QPSK	23035	25RB#0	4.4694	4.729	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4766	4.738	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4687	4.736	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4680	4.714	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4712	4.766	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4748	4.730	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9133	9.284	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9175	9.323	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9024	9.285	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.8996	9.307	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9054	9.273	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.8988	9.317	PASS

Test Graphs

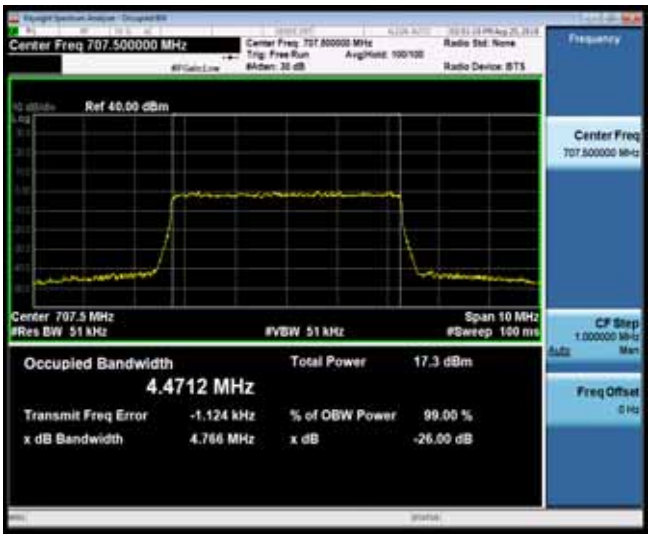
Band12_5MHz_QPSK_23035_25RB#0

Band12_5MHz_QPSK_23095_25RB#0

Band12_5MHz_QPSK_23155_25RB#0



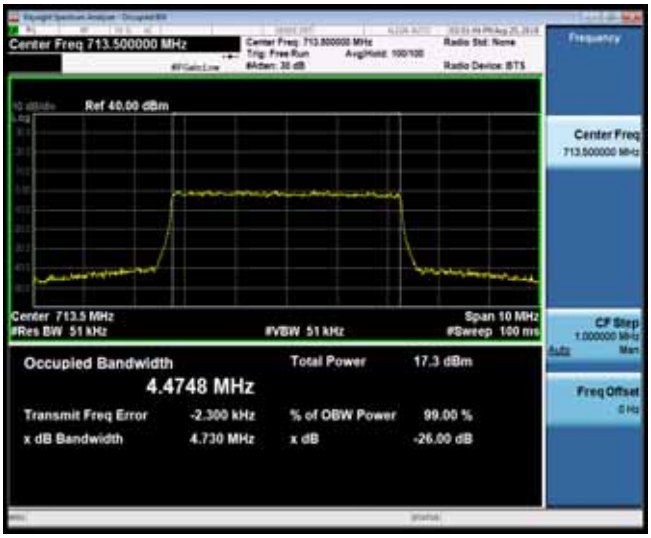
Band12_5MHz_16QAM_23035_25RB#0



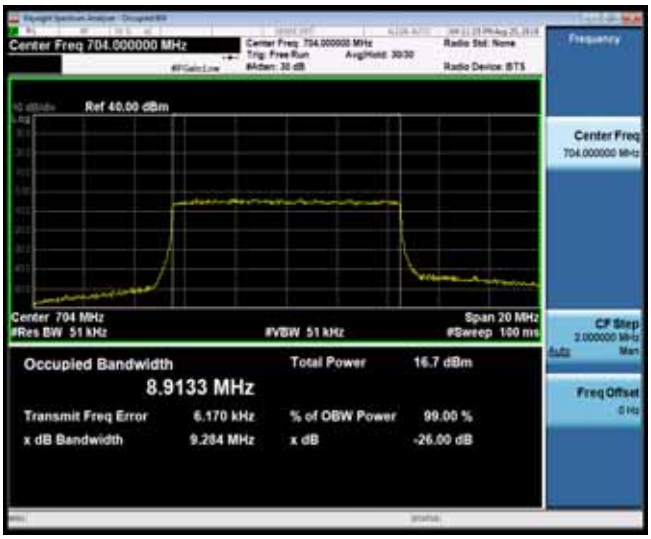
Band12_5MHz_16QAM_23095_25RB#0



Band12_5MHz_16QAM_23155_25RB#0



Band12_10MHz_QPSK_23060_50RB#0



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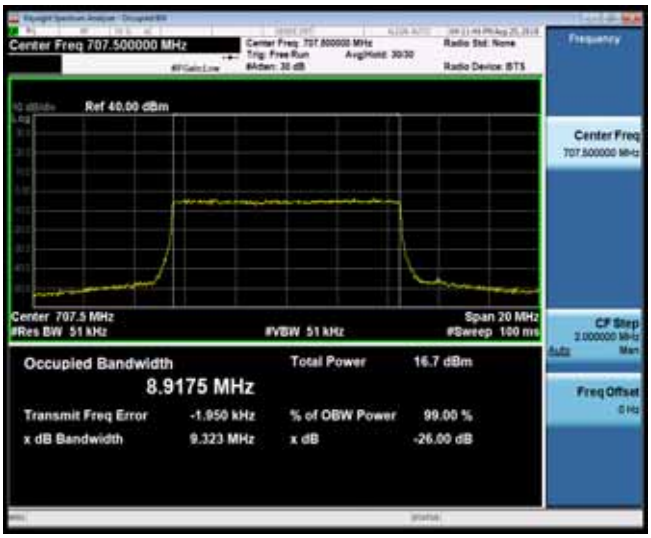
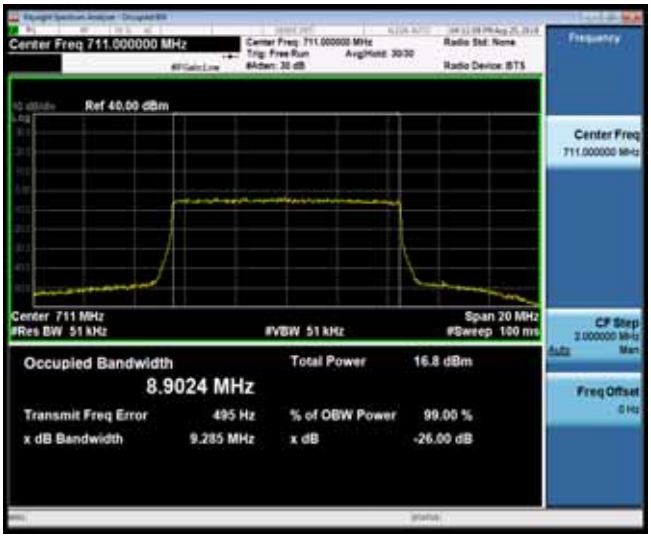
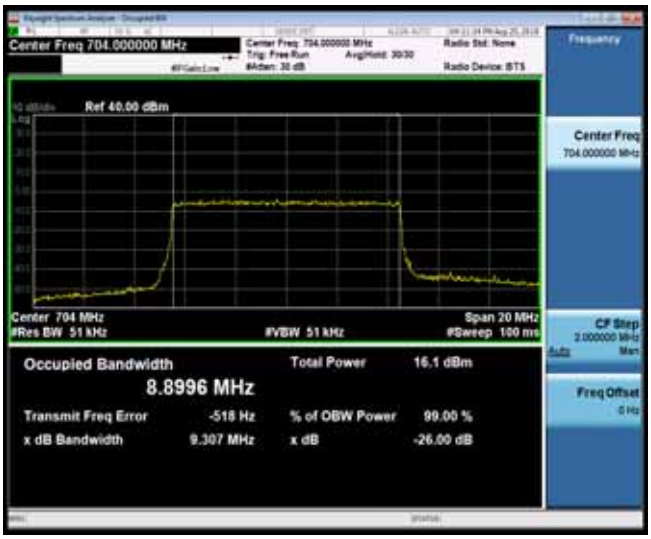


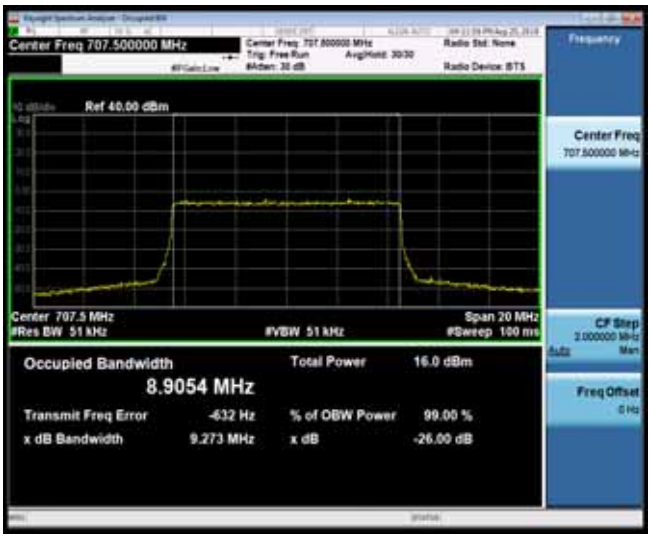
Band12_10MHz_QPSK_23130_50RB#0



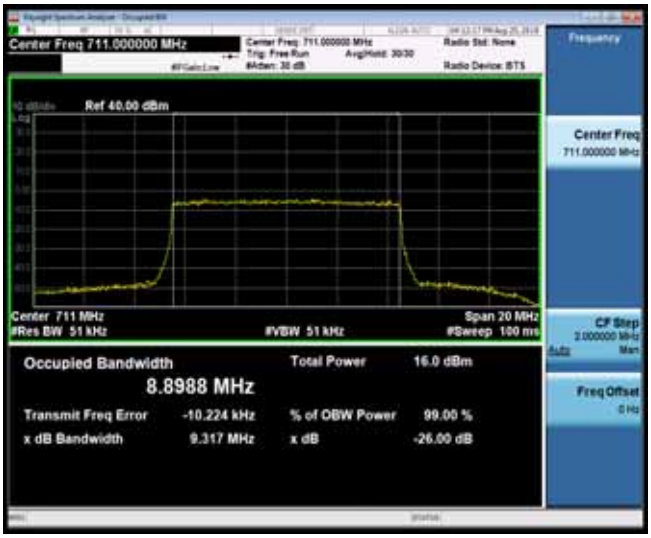
Band12_10MHz_16QAM_23060_50RB#0



Band12_10MHz_16QAM_23095_50RB#0



Band12_10MHz_16QAM_23130_50RB#0


Center Freq 711.000000 MHz
Ref 40.00 dBm
Center 711 MHz
#Res BW 51 kHz
#VBW 51 kHz
Span 20 MHz
#Sweep 100 ms
Occupied Bandwidth
8.8988 MHz
Total Power 16.0 dBm
Transmit Freq Error -10.224 kHz
% of OBW Power 99.00 %
x dB Bandwidth 9.317 MHz
x dB -26.00 dB
Frequency
Center Freq
711.000000 MHz
CF Step
Freq Offset

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	5MHz	QPSK	23035	1RB#0	-26.01	PASS
Band12	5MHz	QPSK	23035	25RB#0	-37.43	PASS
Band12	5MHz	QPSK	23155	1RB#0	-46.07	PASS
Band12	5MHz	QPSK	23155	25RB#0	-37.92	PASS
Band12	5MHz	16QAM	23035	1RB#0	-26.92	PASS
Band12	5MHz	16QAM	23035	25RB#0	-37.78	PASS
Band12	5MHz	16QAM	23155	1RB#0	-46.04	PASS
Band12	5MHz	16QAM	23155	25RB#0	-38.61	PASS
Band12	10MHz	QPSK	23060	1RB#0	-26.10	PASS
Band12	10MHz	QPSK	23060	50RB#0	-40.21	PASS
Band12	10MHz	QPSK	23130	1RB#0	-45.72	PASS
Band12	10MHz	QPSK	23130	50RB#0	-40.78	PASS
Band12	10MHz	16QAM	23060	1RB#0	-23.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	-40.55	PASS
Band12	10MHz	16QAM	23130	1RB#0	-45.62	PASS
Band12	10MHz	16QAM	23130	50RB#0	-40.14	PASS

Test Graphs

Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_25RB#0

Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_QPSK_23155_25RB#0

Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23035_25RB#0

Band12_5MHz_16QAM_23155_1RB#0

Band12_5MHz_16QAM_23155_25RB#0

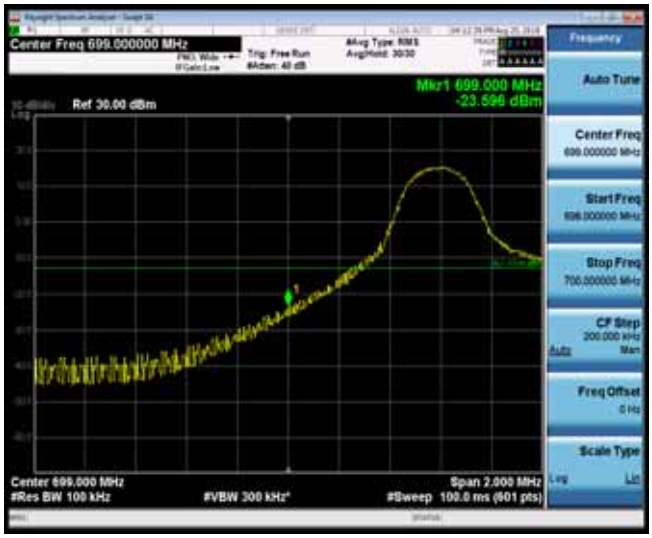
Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23060_50RB#0

Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_QPSK_23130_50RB#0

Band12_10MHz_16QAM_23060_1RB#0



Band12_10MHz_16QAM_23060_50RB#0

Band12_10MHz_16QAM_23130_1RB#0

Band12_10MHz_16QAM_23130_50RB#0

Center Freq 716.000000 MHz
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 30/30
Mkr1 716.020 MHz
-40.143 dBm
Ref 30.00 dBm
Frequency
Auto Tune
Center Freq
716.000000 MHz
Start Freq
Stop Freq
717.000000 MHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin
Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 100.0 ms (601 pts)

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	5MHz	QPSK	23035	1RB#0	Range1:0.009~0.15MHz	-65.44	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range2:0.15~30MHz	-56.85	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range3:30~1000MHz	-44.76	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range4:1000~5000MHz	-49.96	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range5:5000~12000MHz	-67.72	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range6:12000~18000MHz	-63.96	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:0.009~0.15MHz	-64.96	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:0.15~30MHz	-58.15	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range3:30~1000MHz	-45.25	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range4:1000~5000MHz	-49.84	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range5:5000~12000MHz	-67.93	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range6:12000~18000MHz	-64.04	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:0.009~0.15MHz	-65.96	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range2:0.15~30MHz	-55.87	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range3:30~1000MHz	-44.84	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range4:1000~5000MHz	-50.07	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range5:5000~12000MHz	-67.85	PASS

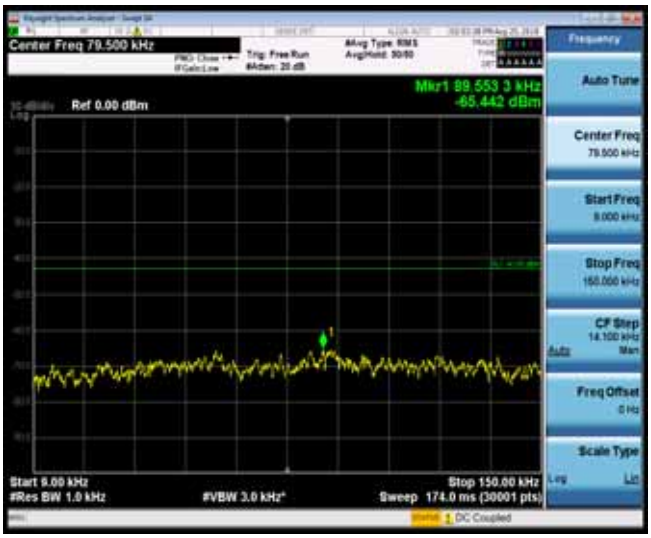
Band12	5MHz	QPSK	23155	1RB#0	Range6:12000~18000MHz	-64.04	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range1:0.009~0.15MHz	-64.47	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range2:0.15~30MHz	-58.34	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range3:30~1000MHz	-44.97	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range4:1000~5000MHz	-50.05	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range5:5000~12000MHz	-67.84	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range6:12000~18000MHz	-63.99	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range1:0.009~0.15MHz	-65.36	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range2:0.15~30MHz	-58.66	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range3:30~1000MHz	-44.02	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range4:1000~5000MHz	-50.05	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range5:5000~12000MHz	-67.71	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range6:12000~18000MHz	-63.99	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range1:0.009~0.15MHz	-66.42	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range2:0.15~30MHz	-57.65	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range3:30~1000MHz	-44.91	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range4:1000~5000MHz	-49.79	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range5:5000~12000MHz	-67.85	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range6:12000~18000MHz	-64.09	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:0.009~0.15MHz	-63.42	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:0.15~30MHz	-58.66	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range3:30~1000MHz	-45.21	PASS

Band12	10MHz	QPSK	23060	1RB#0	Range4:1000~5000MHz	-49.65	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range5:5000~12000MHz	-67.8	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range6:12000~18000MHz	-63.98	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:0.009~0.15MHz	-66.09	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:0.15~30MHz	-59.02	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range3:30~1000MHz	-44.9	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range4:1000~5000MHz	-49.39	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range5:5000~12000MHz	-67.73	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range6:12000~18000MHz	-64.09	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:0.009~0.15MHz	-65.66	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:0.15~30MHz	-57.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range3:30~1000MHz	-43.81	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range4:1000~5000MHz	-50.03	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range5:5000~12000MHz	-67.86	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range6:12000~18000MHz	-64.12	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:0.009~0.15MHz	-65.3	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:0.15~30MHz	-59.09	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range3:30~1000MHz	-44.42	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range4:1000~5000MHz	-50.01	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range5:5000~12000MHz	-67.83	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range6:12000~18000MHz	-64.01	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:0.009~0.15MHz	-64.33	PASS

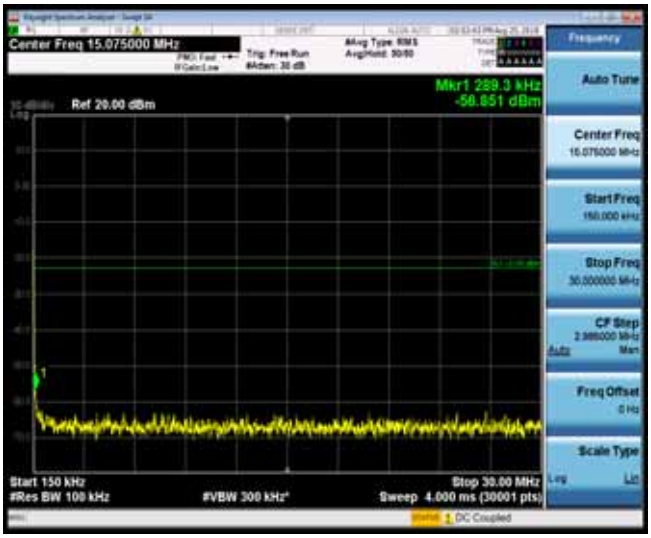
Band12	10MHz	16QAM	23095	1RB#0	Range2:0.15~30MHz	-58.03	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range3:30~1000MHz	-45.07	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range4:1000~5000MHz	-49.54	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range5:5000~12000MHz	-67.8	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range6:12000~18000MHz	-63.99	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:0.009~0.15MHz	-66.32	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:0.15~30MHz	-58.17	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range3:30~1000MHz	-44.93	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range4:1000~5000MHz	-49.94	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range5:5000~12000MHz	-67.89	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range6:12000~18000MHz	-63.99	PASS

Test Graphs

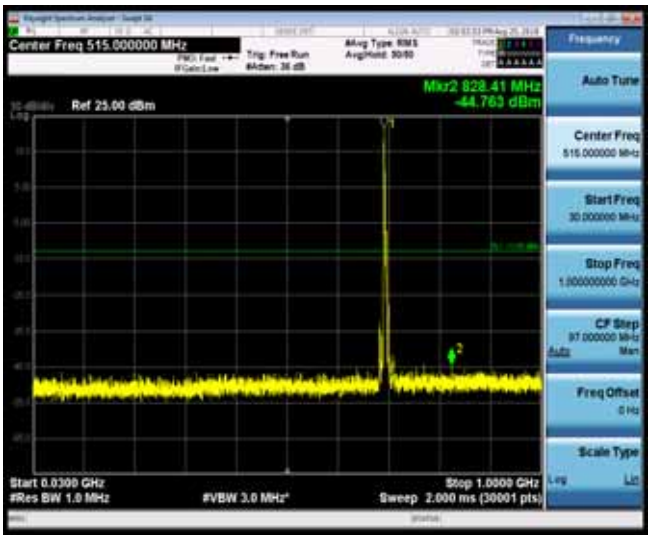
Band12_5MHz_QPSK_23035_1RB#0



Band12_5MHz_QPSK_23035_1RB#0



Band12_5MHz_QPSK_23035_1RB#0



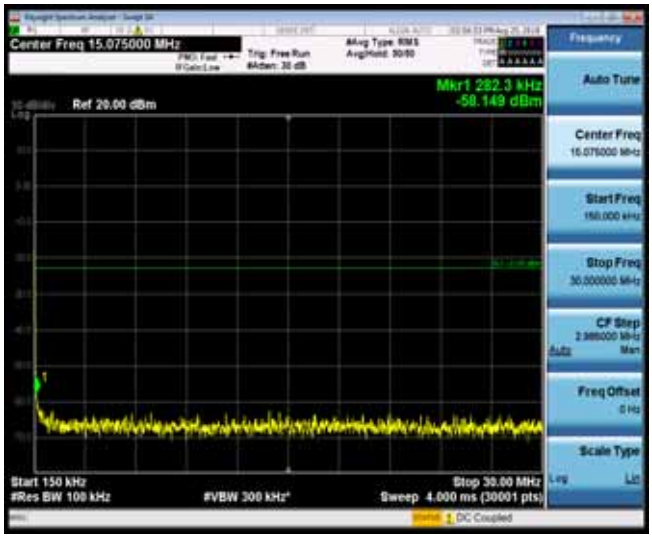
Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23035_1RB#0

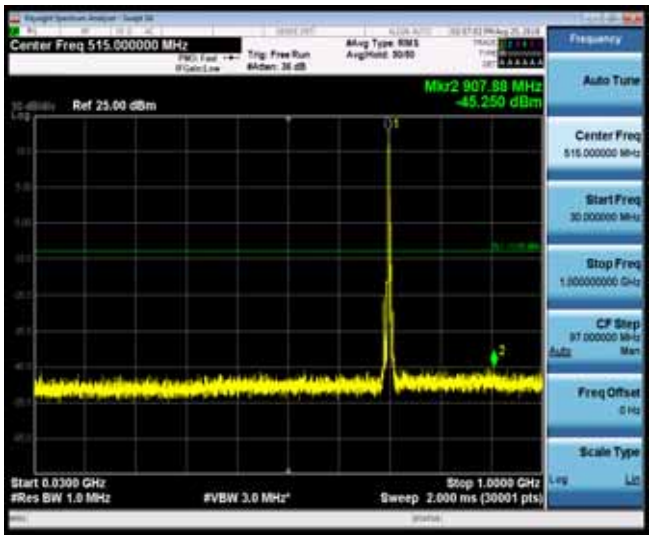
Band12_5MHz_QPSK_23035_1RB#0

Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23095_1RB#0



Band12_5MHz_QPSK_23095_1RB#0



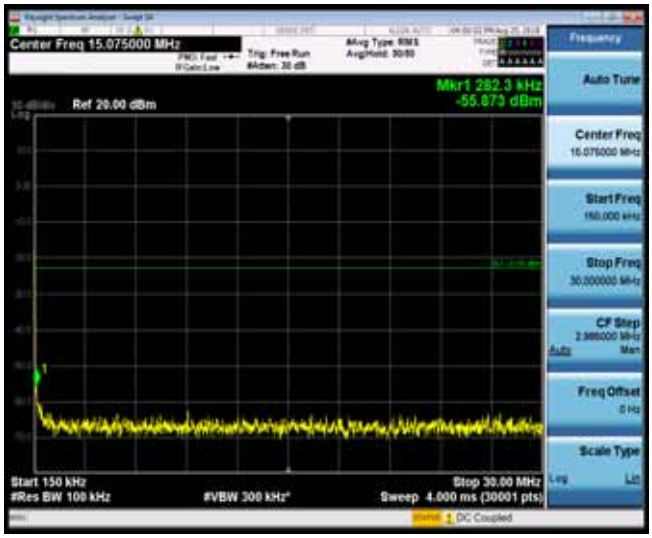
Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23095_1RB#0

Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_QPSK_23155_1RB#0



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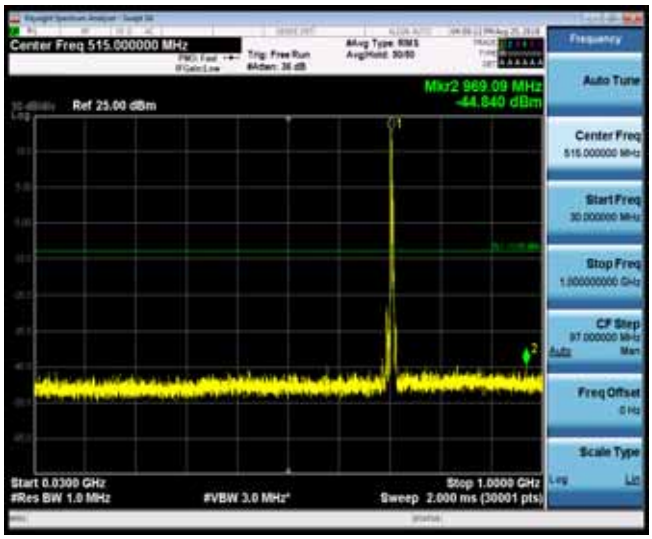


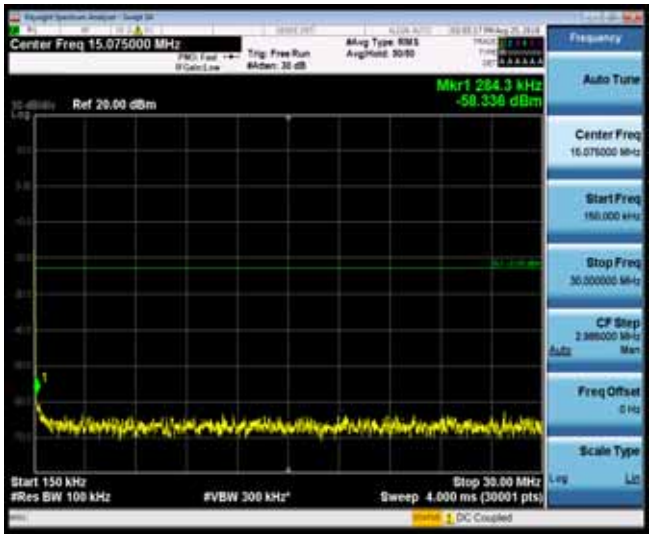
Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_QPSK_23155_1RB#0

Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23035_1RB#0



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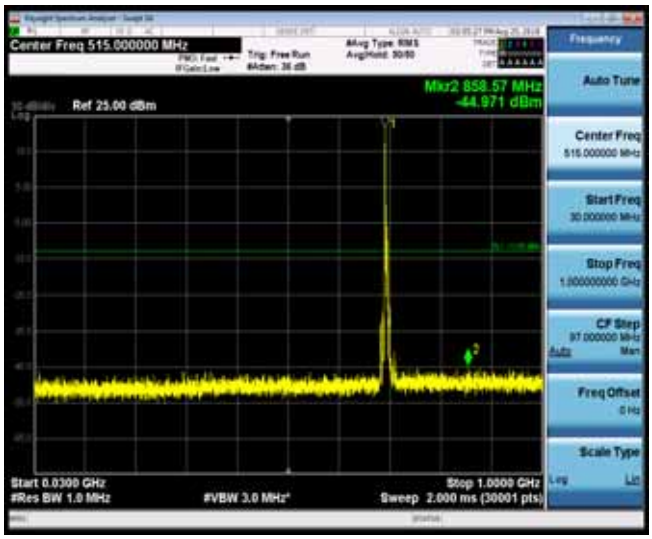


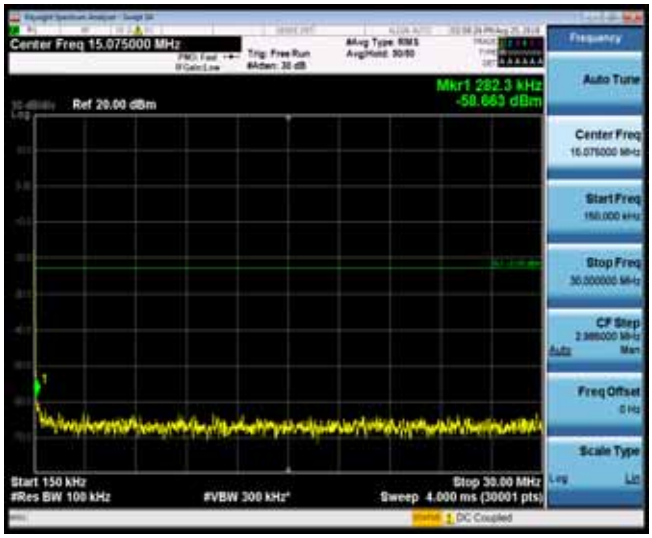
Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23035_1RB#0

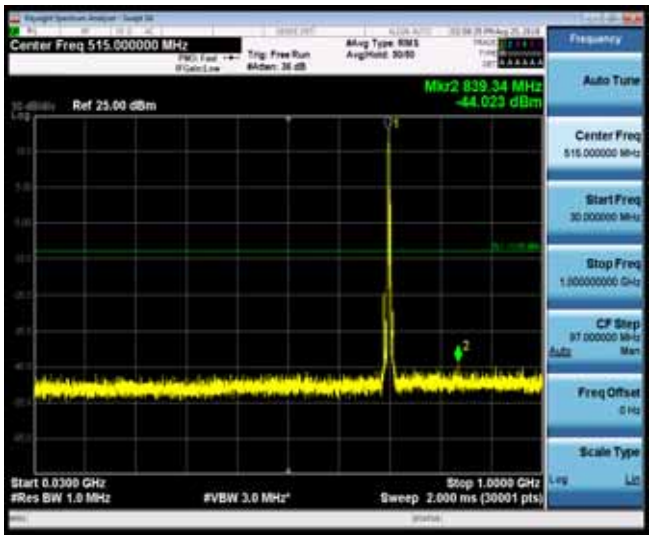
Band12_5MHz_16QAM_23035_1RB#0

Band12_5MHz_16QAM_23095_1RB#0

Band12_5MHz_16QAM_23095_1RB#0



Band12_5MHz_16QAM_23095_1RB#0

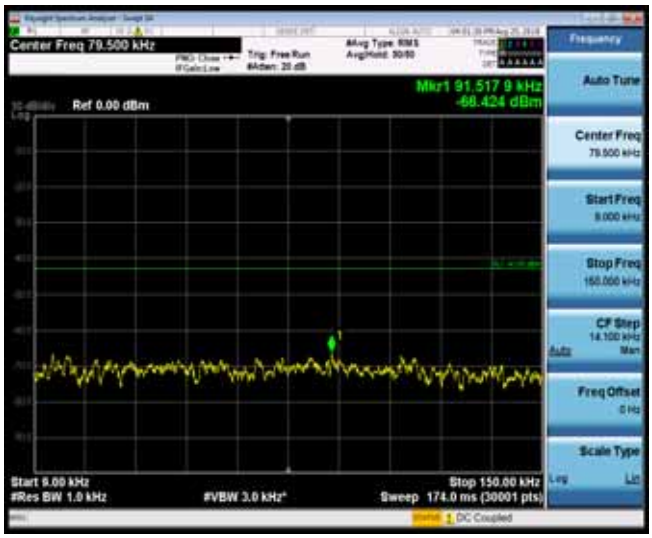


Band12_5MHz_16QAM_23095_1RB#0

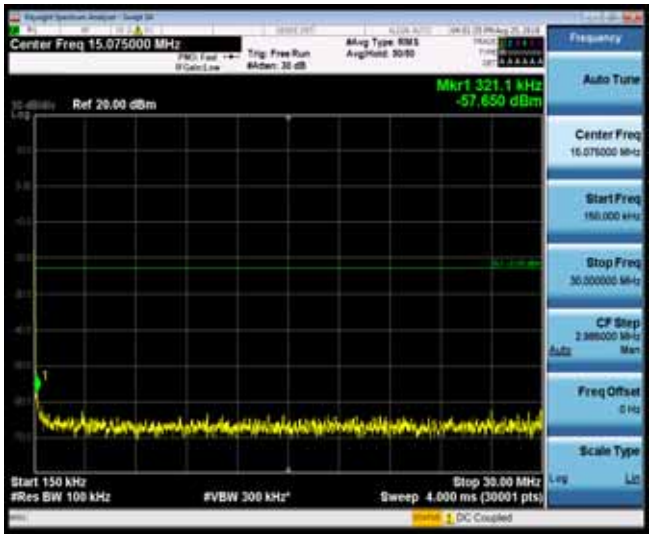
Band12_5MHz_16QAM_23095_1RB#0

Band12_5MHz_16QAM_23095_1RB#0

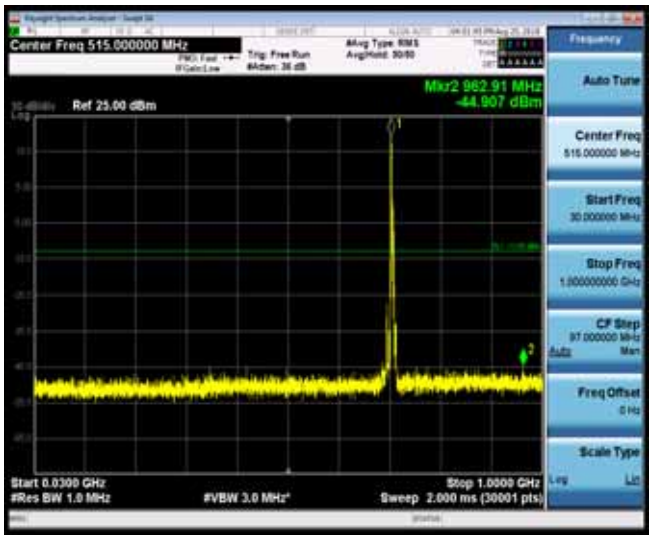
Band12_5MHz_16QAM_23155_1RB#0



Band12_5MHz_16QAM_23155_1RB#0



Band12_5MHz_16QAM_23155_1RB#0



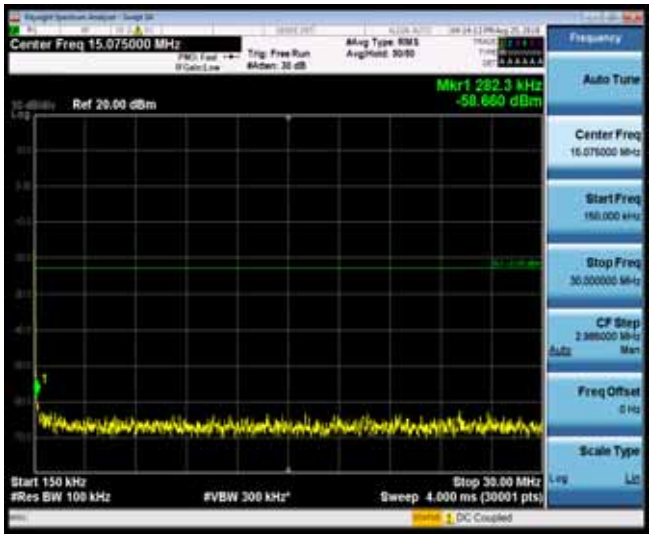
Band12_5MHz_16QAM_23155_1RB#0

Band12_5MHz_16QAM_23155_1RB#0

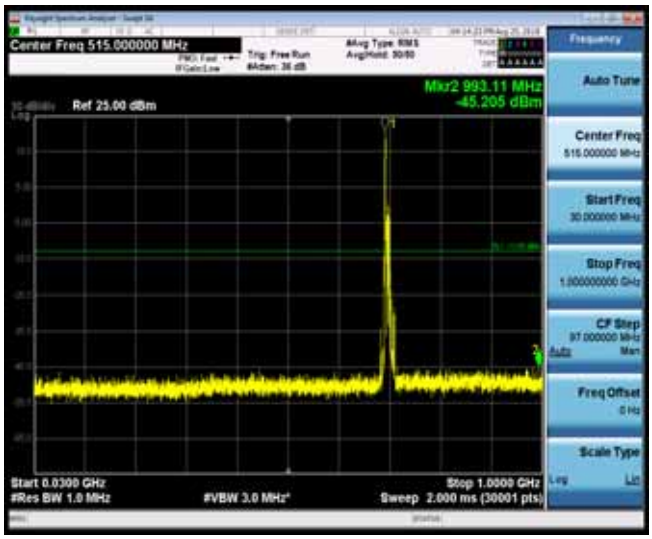
Band12_5MHz_16QAM_23155_1RB#0

Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23060_1RB#0



Band12_10MHz_QPSK_23060_1RB#0



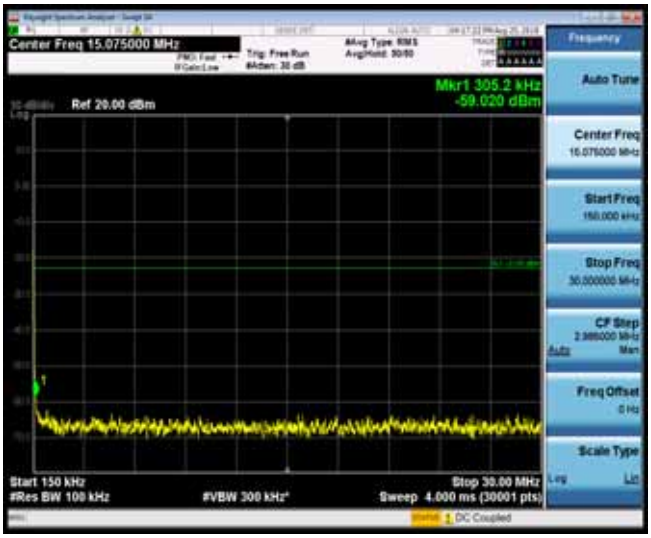
Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23060_1RB#0

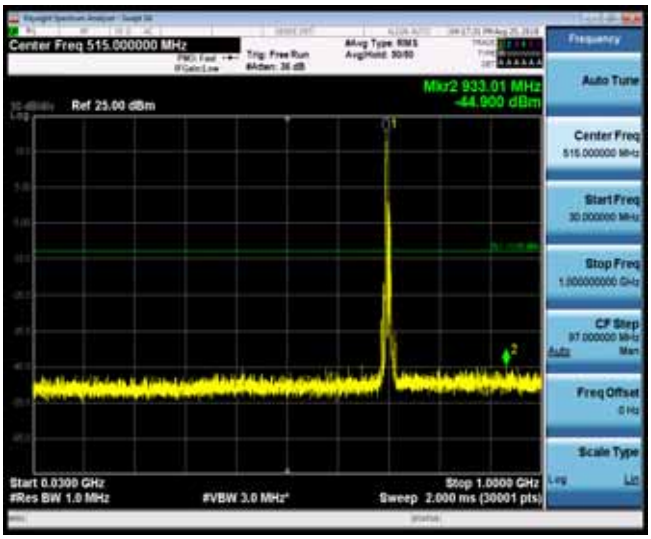
Band12_10MHz_QPSK_23060_1RB#0

Band12_10MHz_QPSK_23095_1RB#0

Band12_10MHz_QPSK_23095_1RB#0



Band12_10MHz_QPSK_23095_1RB#0



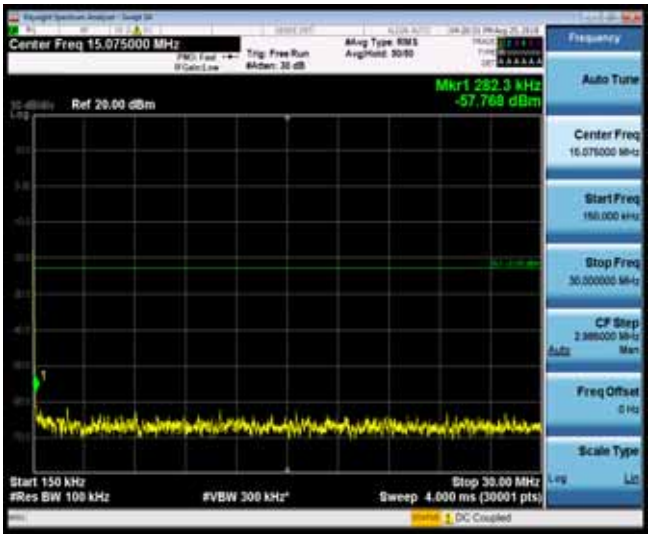
Band12_10MHz_QPSK_23095_1RB#0

Band12_10MHz_QPSK_23095_1RB#0

Band12_10MHz_QPSK_23095_1RB#0

Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_QPSK_23130_1RB#0



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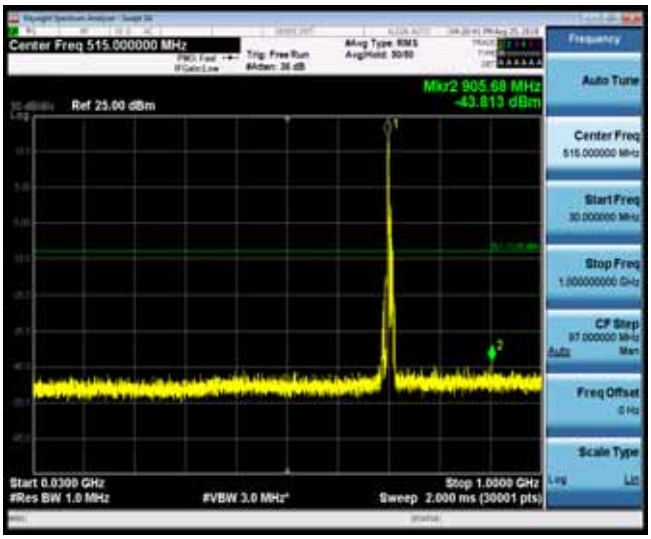


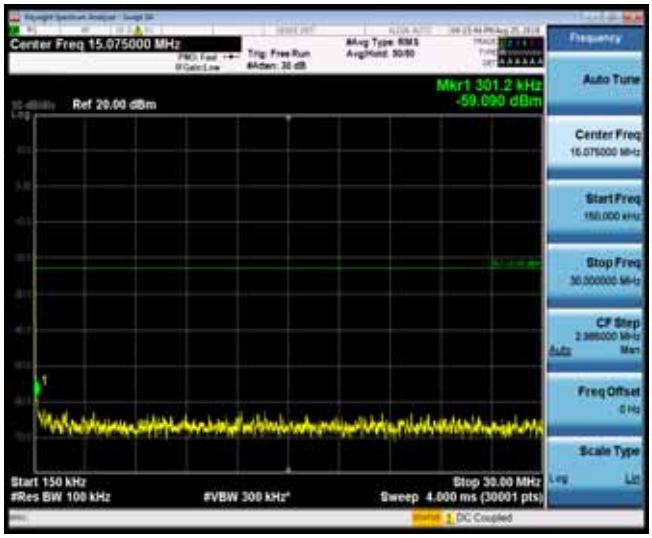
Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_QPSK_23130_1RB#0

Band12_10MHz_16QAM_23060_1RB#0

Band12_10MHz_16QAM_23060_1RB#0



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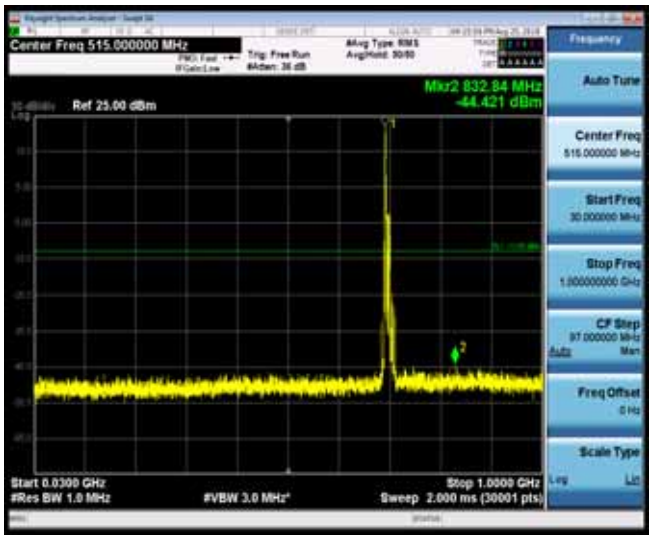

Band12_10MHz_16QAM_23060_1RB#0

Band12_10MHz_16QAM_23060_1RB#0

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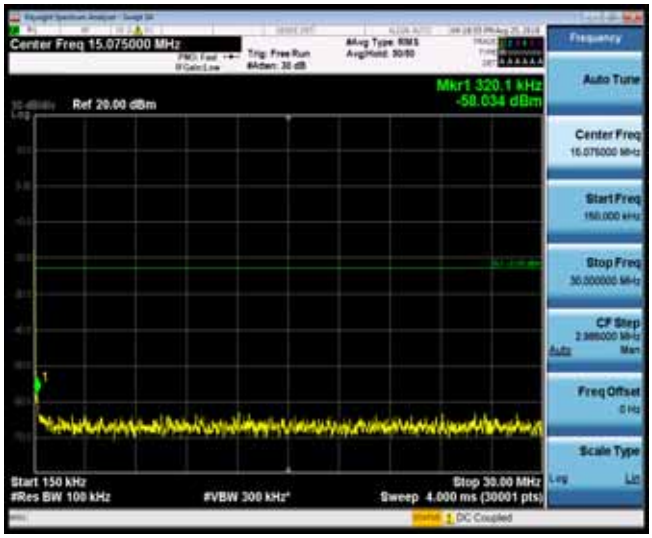
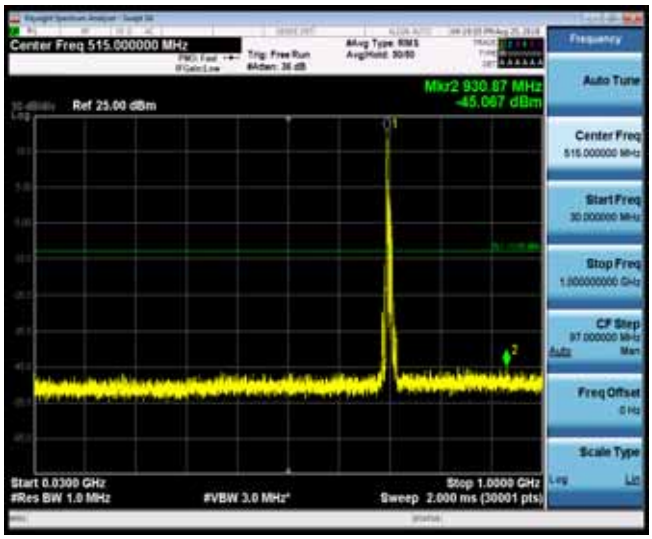
Band12_10MHz_16QAM_23095_1RB#0



Band12_10MHz_16QAM_23095_1RB#0



Band12_10MHz_16QAM_23095_1RB#0

Band12_10MHz_16QAM_23095_1RB#0

Band12_10MHz_16QAM_23095_1RB#0

Band12_10MHz_16QAM_23130_1RB#0

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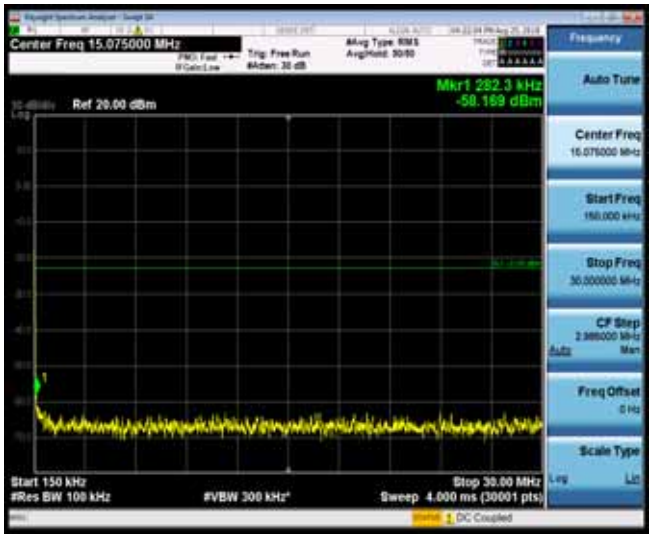

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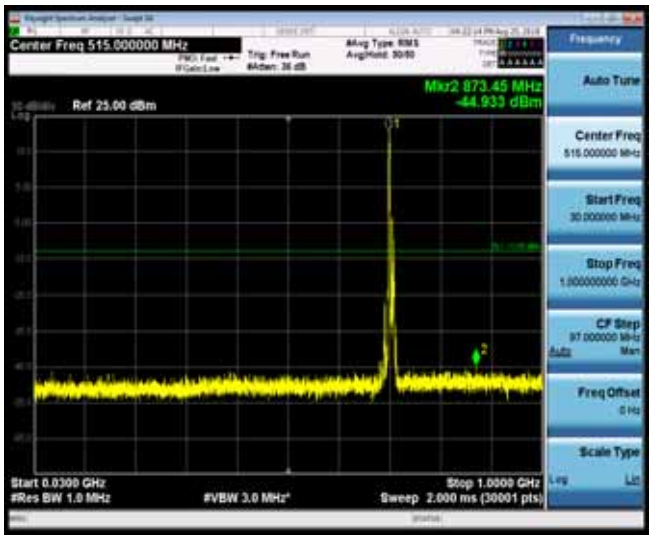

Band12_10MHz_16QAM_23130_1RB#0

Band12_10MHz_16QAM_23130_1RB#0

Band12_10MHz_16QAM_23130_1RB#0

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	5MHz	QPSK	23035	25RB#0	VL	NT	14.68	0.020927	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VN	NT	18.55	0.026443	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VH	NT	16.14	0.023008	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VL	NT	19.76	0.027929	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VN	NT	9.97	0.014092	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VH	NT	-8.08	-0.011420	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VL	NT	11.63	0.016300	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VN	NT	6.68	0.009362	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VH	NT	17.38	0.024359	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VL	NT	-11.90	-0.016964	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VN	NT	-4.73	-0.006743	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VH	NT	-11.40	-0.016251	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VL	NT	13.12	0.018544	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VN	NT	9.31	0.013159	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VH	NT	4.12	0.005823	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VL	NT	8.83	0.012376	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VN	NT	6.92	0.009699	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VH	NT	10.23	0.014338	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	6.49	0.009219	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	15.41	0.021889	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	13.63	0.019361	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	10.21	0.014431	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	13.10	0.018516	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	15.02	0.021230	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-12.52	-0.017609	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	23.55	0.033122	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	13.05	0.018354	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	14.15	0.020099	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	17.15	0.024361	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	7.04	0.010000	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-15.76	-0.022276	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-7.18	-0.010148	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-6.45	-0.009117	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	21.13	0.029719	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	24.70	0.034740	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	18.17	0.025556	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	5MHz	QPSK	23035	25RB#0	NV	-30	7.74	0.011033	±2.5	PASS

Band12	5MHz	QPSK	23035	25RB#0	NV	-20	13.16	0.018760	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	5.26	0.007498	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	5.79	0.008254	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	10.60	0.015110	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-30	-9.60	-0.013569	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-20	-8.45	-0.011943	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	12.59	0.017795	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	8.70	0.012297	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	-8.90	-0.012580	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-30	11.01	0.015431	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-20	15.54	0.021780	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	10.99	0.015403	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	12.83	0.017982	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	16.69	0.023392	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-30	-7.32	-0.010435	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-20	-4.58	-0.006529	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	7.11	0.010135	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	15.18	0.021639	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	20	-6.37	-0.009081	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-30	-6.68	-0.009442	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-20	-11.84	-0.016735	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	-6.55	-0.009258	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	-10.59	-0.014968	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	-14.35	-0.020283	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-30	-16.26	-0.022789	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-20	11.29	0.015823	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	13.56	0.019005	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	12.67	0.017758	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	20	9.96	0.013959	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	9.53	0.013537	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-10.37	-0.014730	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-6.45	-0.009162	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	14.59	0.020724	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-5.19	-0.007372	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	8.68	0.012269	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	17.50	0.024735	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-7.37	-0.010417	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-14.89	-0.021046	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-15.13	-0.021385	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	21.60	0.030380	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	22.20	0.031224	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	21.16	0.029761	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-18.95	-0.026653	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	11.34	0.015949	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	6.28	0.008920	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-16.21	-0.023026	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	12.55	0.017827	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-4.41	-0.006264	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-14.22	-0.020199	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	7.28	0.010290	±2.5	PASS

Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-13.49	-0.019067	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-9.20	-0.013004	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-10.26	-0.014502	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-10.70	-0.015124	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	22.47	0.031603	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	17.35	0.024402	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	21.00	0.029536	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	16.54	0.023263	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	18.37	0.025837	±2.5	PASS