Test Data for E-UTRA Band 5

EUT： MDVR	**Model：** M51HV.TGWE-A-A
Ambient Condition: 25 ℃, 45 %RH, 101.325 kPa	
Test Engineer: Jack Zhou	

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Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.02	17.53	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.20	17.71	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.02	17.53	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.11	17.62	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.09	17.60	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	**23.38**	**17.89**	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.15	16.66	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.90	17.41	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.73	17.24	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.88	17.39	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.77	17.28	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.85	17.36	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.98	17.49	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.96	16.47	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.99	17.50	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.13	17.64	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.24	17.75	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.13	17.64	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.12	17.63	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.08	17.59	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.03	16.54	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.15	16.66	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.29	16.80	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.29	16.80	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.94	16.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.99	16.50	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.12	16.63	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.15	15.66	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.86	16.37	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.39	16.90	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.95	16.46	PASS

Band5	1.4MHz	16QAM	20525	3RB#0	21.72	16.23	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.71	16.22	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.76	16.27	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.03	15.54	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.90	16.41	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.03	16.54	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.93	16.44	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.23	16.74	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.22	16.73	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.08	16.59	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.84	15.35	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.97	17.48	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.21	17.72	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.04	17.55	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.89	16.40	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.87	16.38	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.98	16.49	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.97	16.48	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.07	17.58	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.98	17.49	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.03	17.54	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.66	16.17	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.65	16.16	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.79	16.30	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.73	16.24	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.28	17.79	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.98	17.49	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.07	17.58	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.94	16.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.94	16.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.01	16.52	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.84	16.35	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.81	16.32	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.85	16.36	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.68	16.19	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.02	15.53	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.94	15.45	PASS

Band5	3MHz	16QAM	20415	8RB#7	21.05	15.56	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.89	15.40	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.10	16.61	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.86	16.37	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.95	16.46	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.62	15.13	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.61	15.12	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.86	15.37	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.69	15.20	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.12	16.63	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.87	16.38	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.98	16.49	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.99	15.50	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.98	15.49	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.05	15.56	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.82	15.33	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.92	17.43	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.23	17.74	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.92	17.43	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.01	16.52	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.00	16.51	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.05	16.56	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.94	16.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.90	17.41	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.94	17.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.80	17.31	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.76	16.27	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.75	16.26	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.91	16.42	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.70	16.21	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.05	17.56	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.99	17.50	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.99	17.50	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.02	16.53	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.94	16.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.02	16.53	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.99	16.50	PASS

Band5	5MHz	16QAM	20425	1RB#0	21.60	16.11	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.83	16.34	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.89	16.40	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.14	15.65	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.03	15.54	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.08	15.59	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.99	15.50	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.83	16.34	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.50	16.01	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.83	16.34	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.71	15.22	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.89	15.40	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.85	15.36	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.76	15.27	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.22	16.73	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.80	16.31	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.00	16.51	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.12	15.63	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.03	15.54	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.02	15.53	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.01	15.52	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.07	17.58	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.10	17.61	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.84	17.35	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.13	16.64	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.19	16.70	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.85	16.36	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.10	16.61	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.80	17.31	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.15	17.66	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.18	17.69	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.93	16.44	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.84	16.35	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.93	16.44	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.79	16.30	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.05	17.56	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.16	17.67	PASS

Band5	10MHz	QPSK	20600	1RB#49	22.94	17.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.94	16.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.78	16.29	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.95	16.46	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.82	16.33	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.95	16.46	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.14	16.65	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.87	16.38	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.14	15.65	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.14	15.65	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.90	15.41	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.11	15.62	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.91	16.42	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.59	17.10	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.15	16.66	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.81	15.32	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.23	15.74	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.12	15.63	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.96	15.47	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.22	16.73	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.33	16.84	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.52	17.03	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.85	15.36	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.91	15.42	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.01	15.52	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.98	15.49	PASS

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

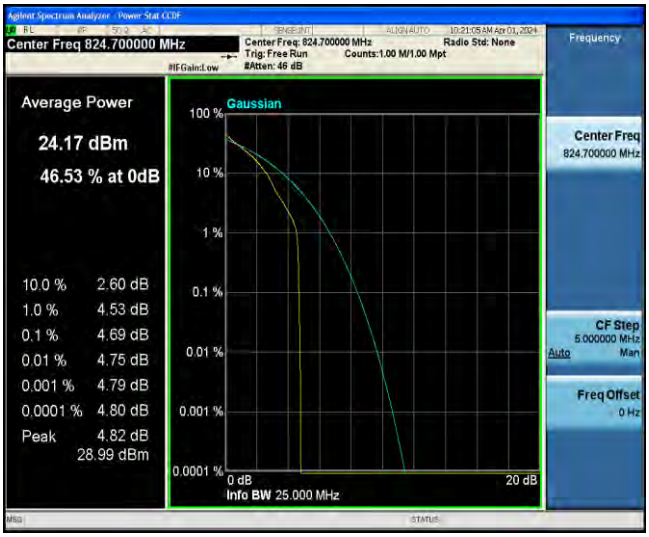
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.69	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.37	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.54	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.27	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.27	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.98	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.63	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.18	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.43	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.05	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.21	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.81	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	8.17	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	8.12	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	8.14	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	8.12	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	8.11	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	8.12	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	8.15	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	8.14	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	8.12	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	8.11	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	8.15	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	8.13	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.68	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.35	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.33	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.33	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.73	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.19	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.66	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.12	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.18	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.10	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.60	13	PASS

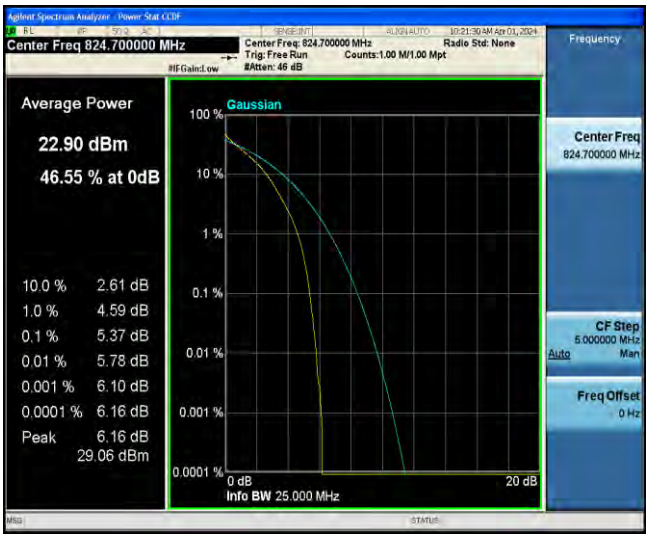
Band5	5MHz	16QAM	20625	25RB#0	5.97	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.67	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.12	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.25	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.32	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.77	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.31	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.46	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.92	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.05	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.61	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.15	13	PASS

Test Graphs

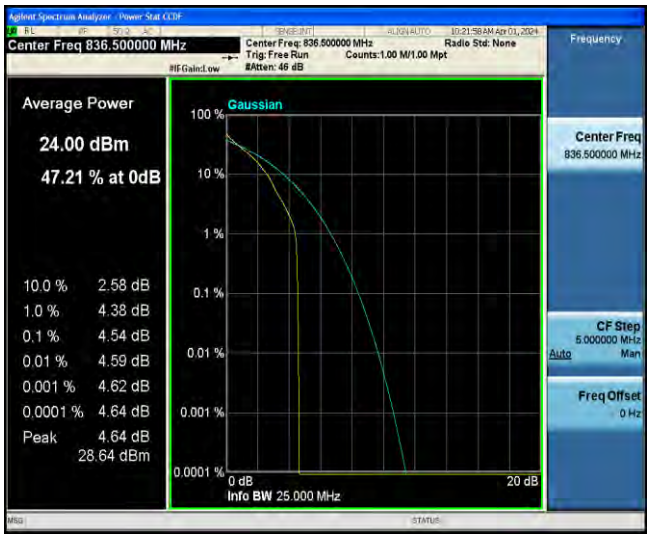
Band5-1.4MHz-QPSK-20407-1RB#0



Band5-1.4MHz-QPSK-20407-6RB#0

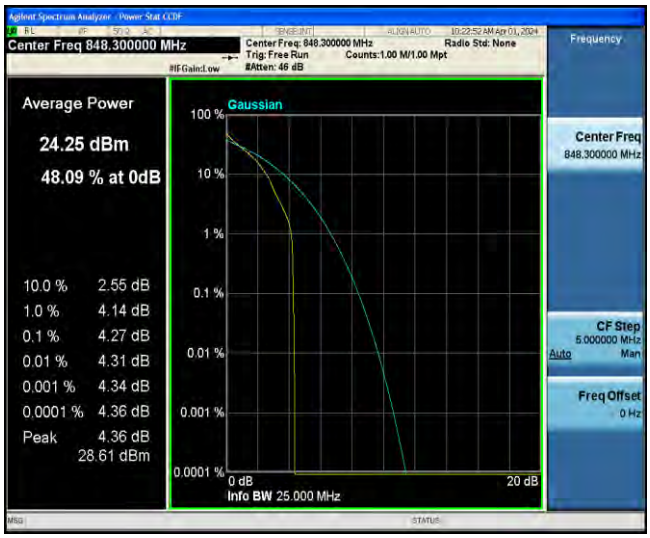


Band5-1.4MHz-QPSK-20525-1RB#0



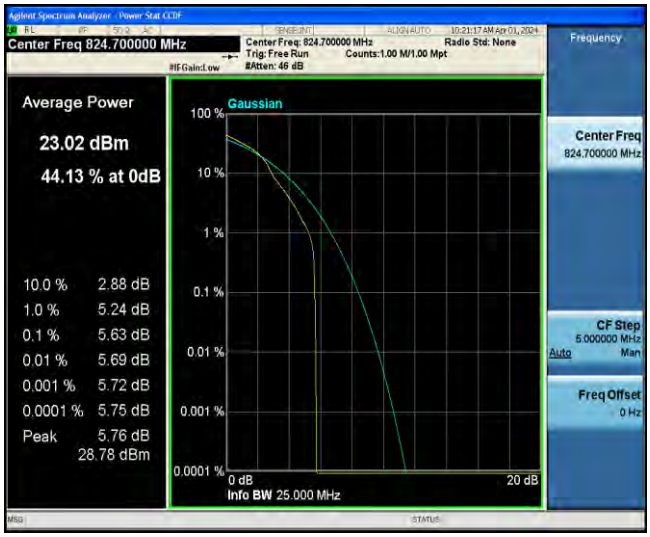
Band5-1.4MHz-QPSK-20525-6RB#0

Band5-1.4MHz-QPSK-20643-1RB#0

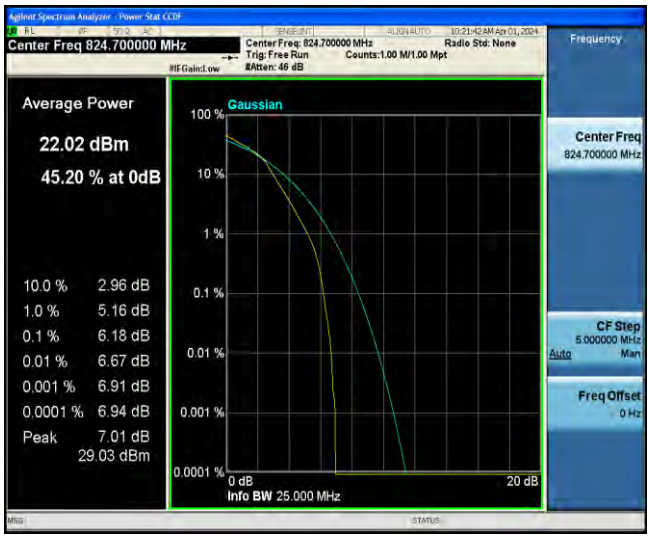


Band5-1.4MHz-QPSK-20643-6RB#0

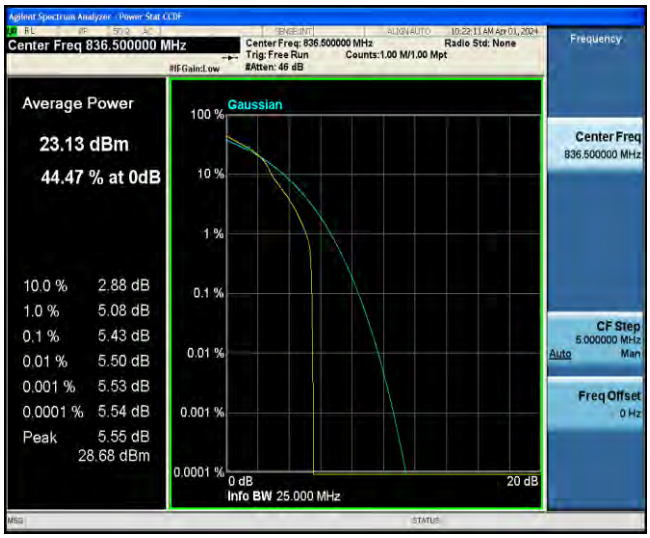
Band5-1.4MHz-16QAM-20407-1RB#0



Band5-1.4MHz-16QAM-20407-6RB#0

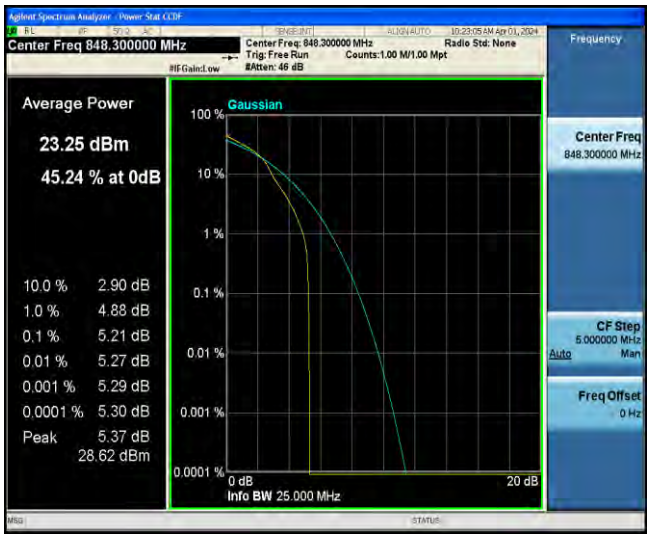


Band5-1.4MHz-16QAM-20525-1RB#0

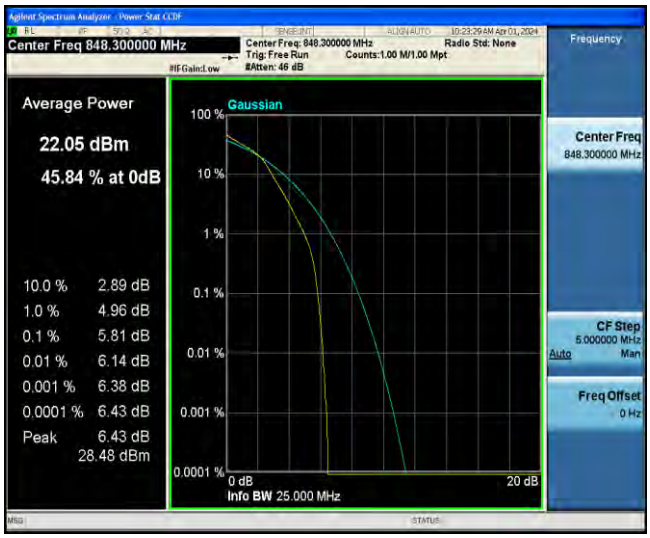


Band5-1.4MHz-16QAM-20525-6RB#0

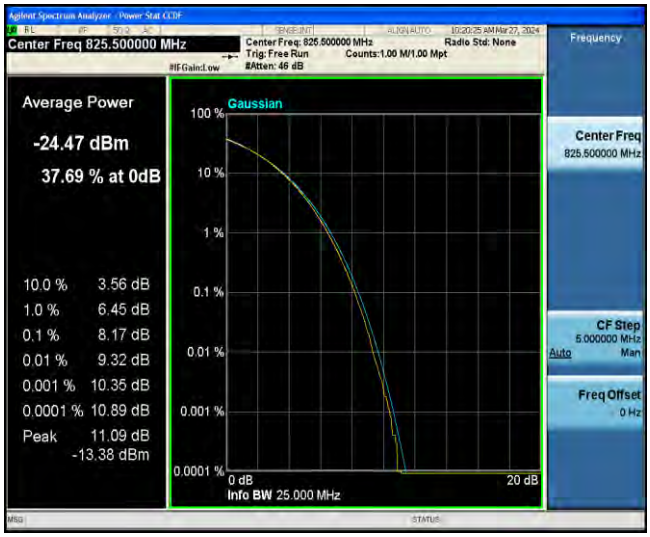
Band5-1.4MHz-16QAM-20643-1RB#0



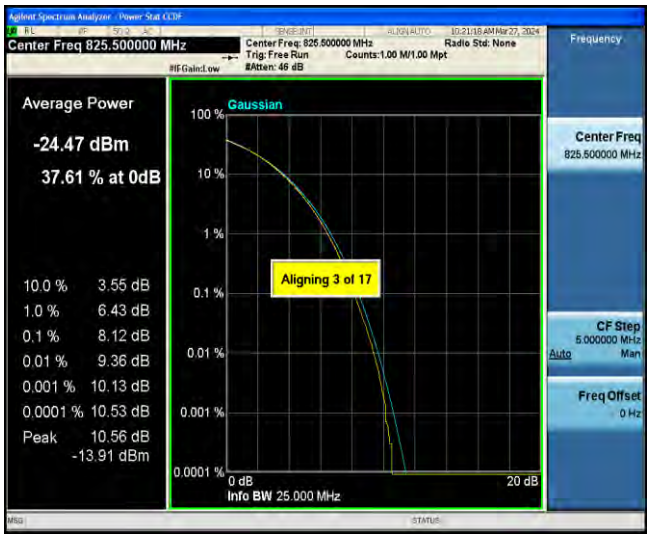
Band5-1.4MHz-16QAM-20643-6RB#0



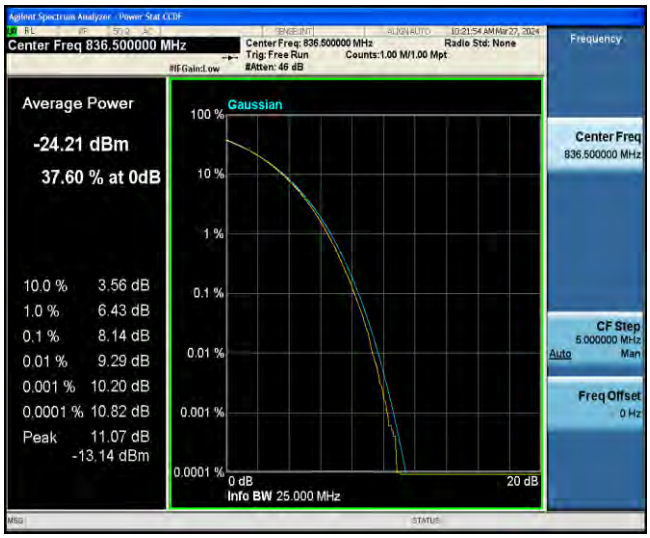
Band5-3MHz-QPSK-20415-1RB#0



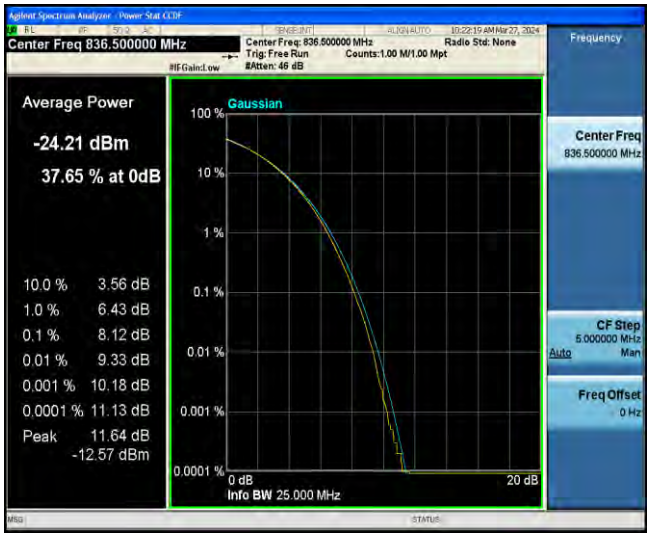
Band5-3MHz-QPSK-20415-15RB#0



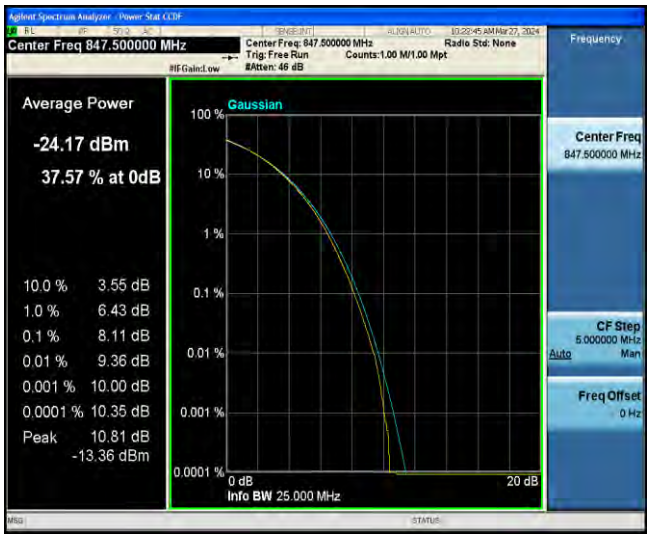
Band5-3MHz-QPSK-20525-1RB#0



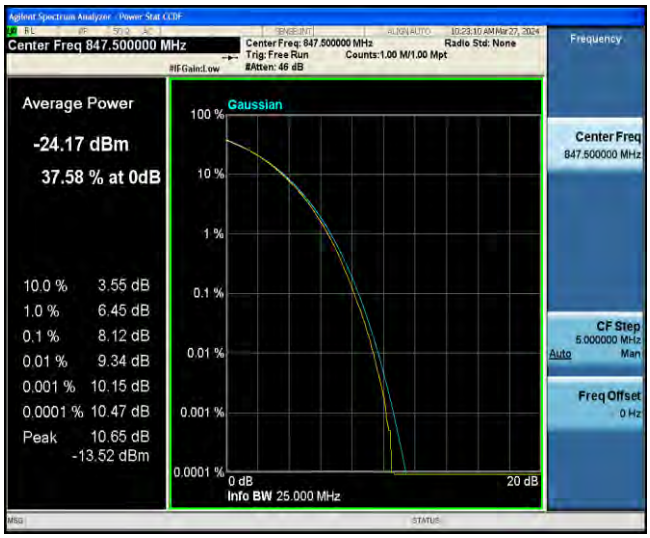
Band5-3MHz-QPSK-20525-15RB#0



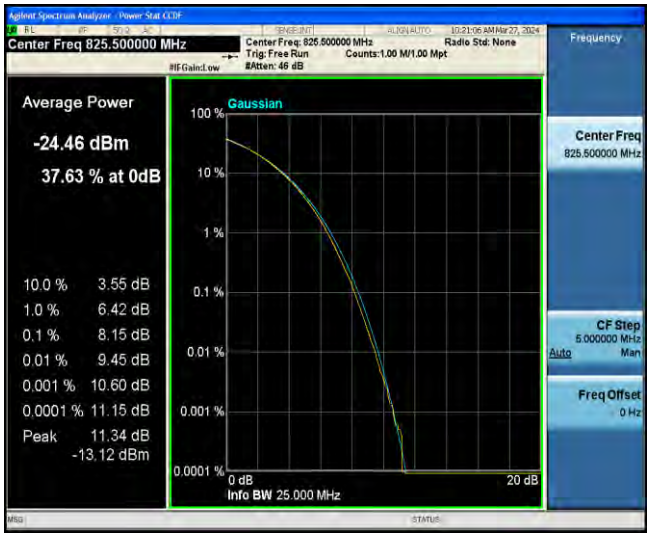
Band5-3MHz-QPSK-20635-1RB#0



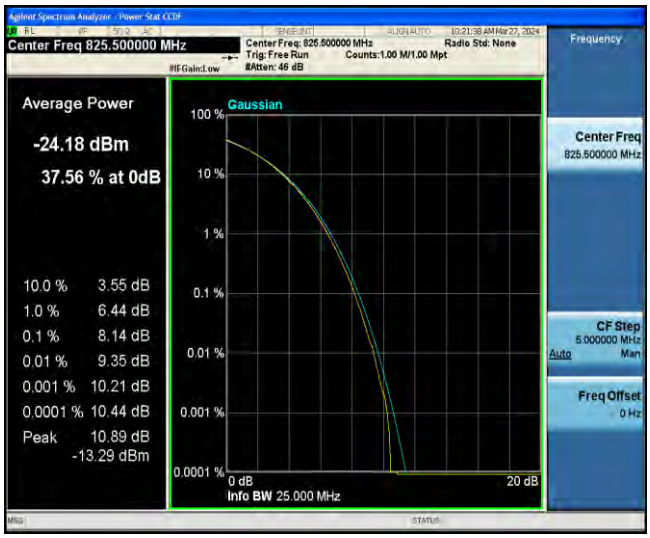
Band5-3MHz-QPSK-20635-15RB#0



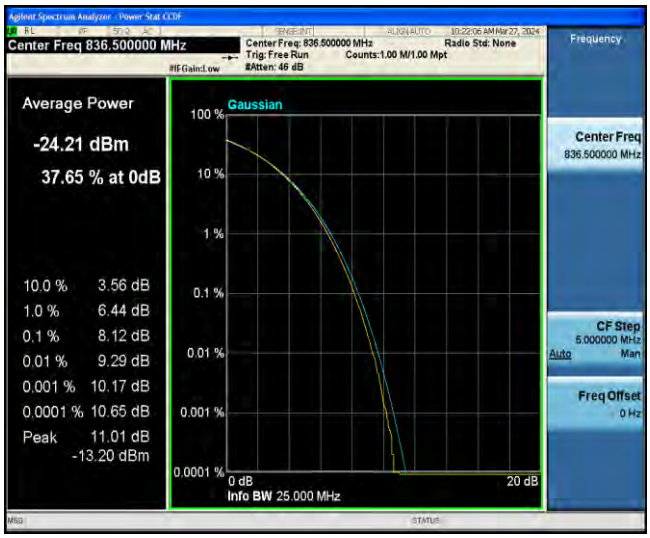
Band5-3MHz-16QAM-20415-1RB#0



Band5-3MHz-16QAM-20415-15RB#0

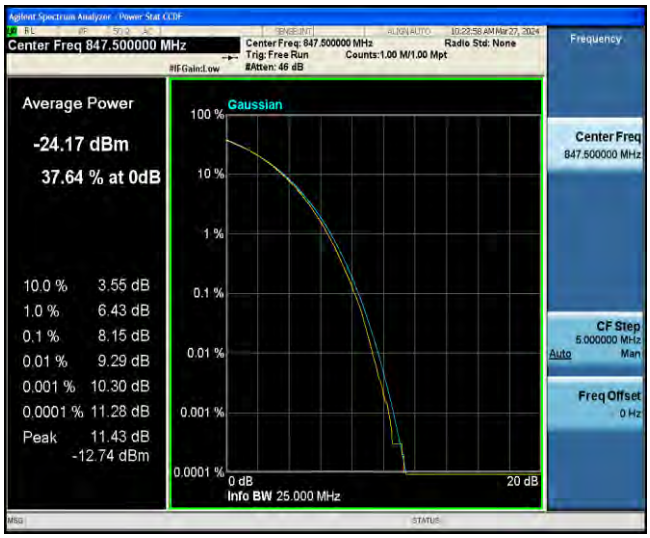


Band5-3MHz-16QAM-20525-1RB#0

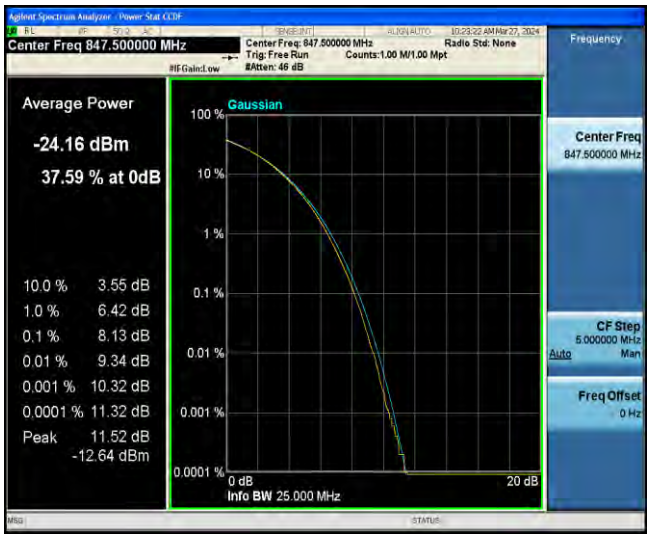


Band5-3MHz-16QAM-20525-15RB#0

Band5-3MHz-16QAM-20635-1RB#0

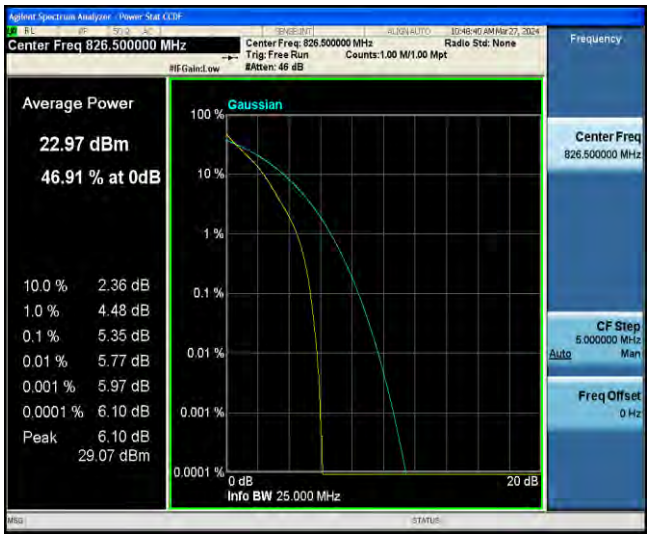


Band5-3MHz-16QAM-20635-15RB#0

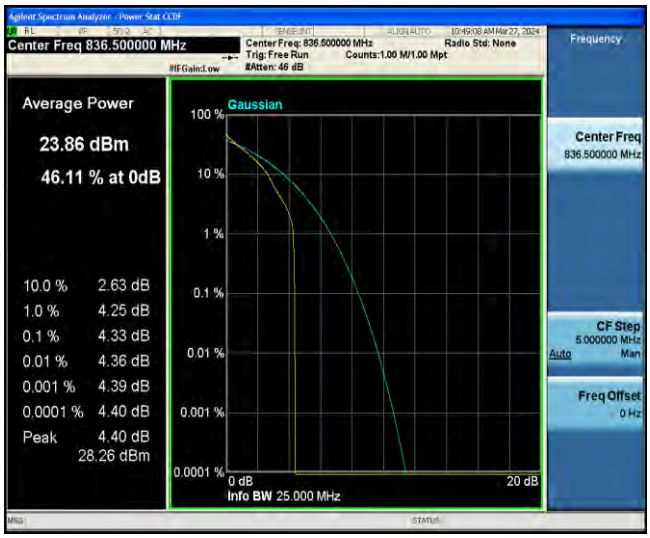


Band5-5MHz-QPSK-20425-1RB#0

Band5-5MHz-QPSK-20425-25RB#0

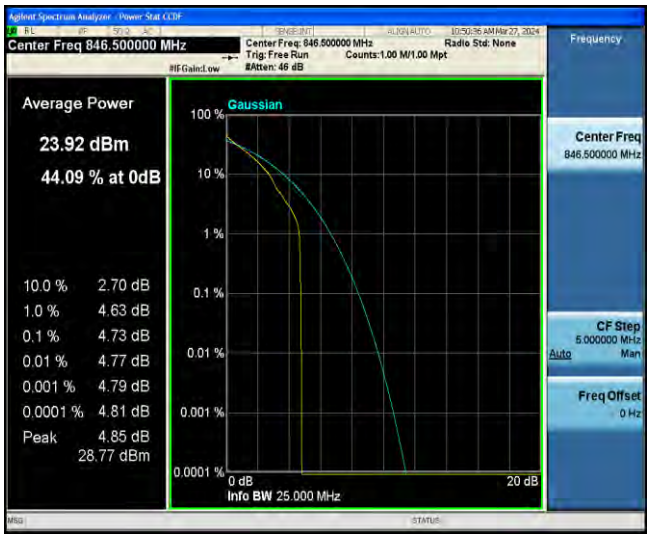


Band5-5MHz-QPSK-20525-1RB#0



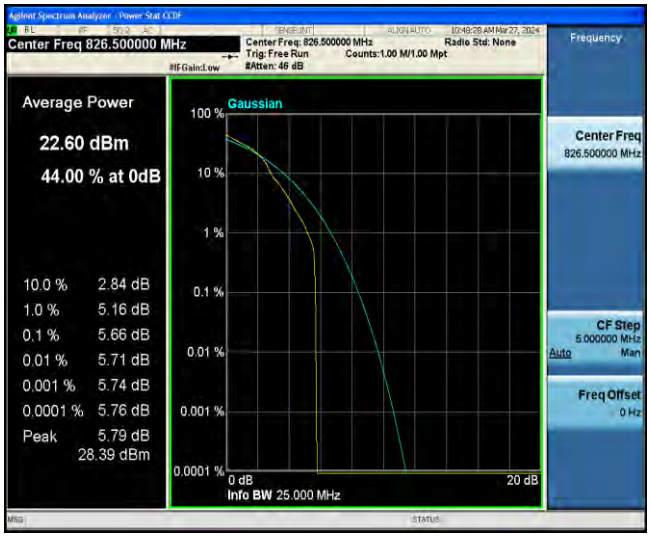
Band5-5MHz-QPSK-20525-25RB#0

Band5-5MHz-QPSK-20625-1RB#0

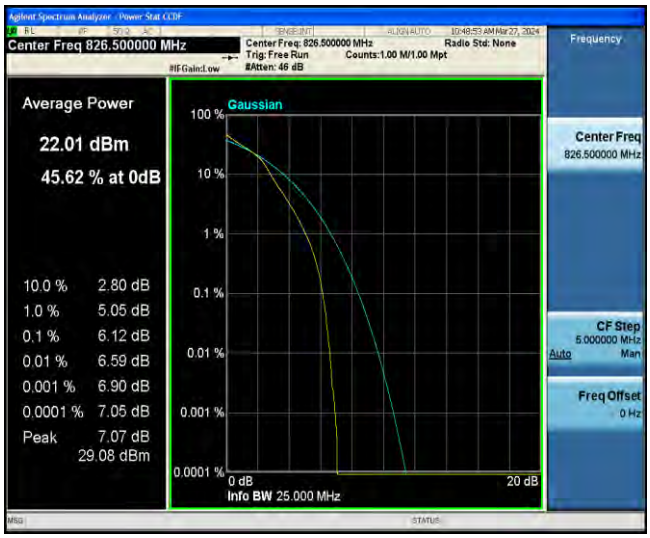


Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-1RB#0



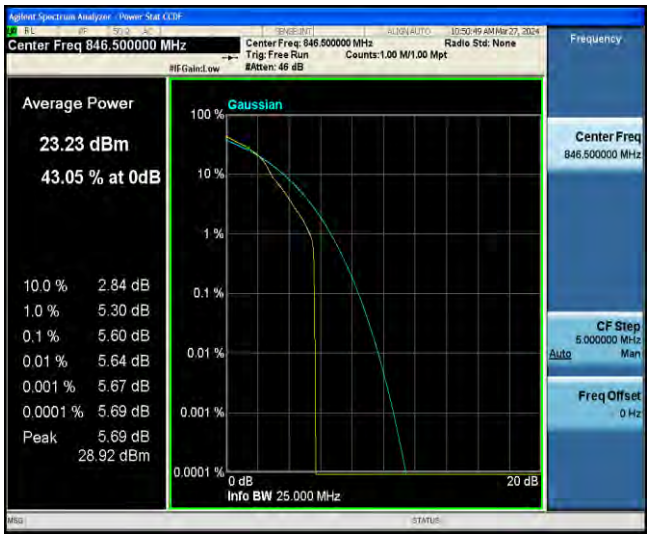
Band5-5MHz-16QAM-20425-25RB#0



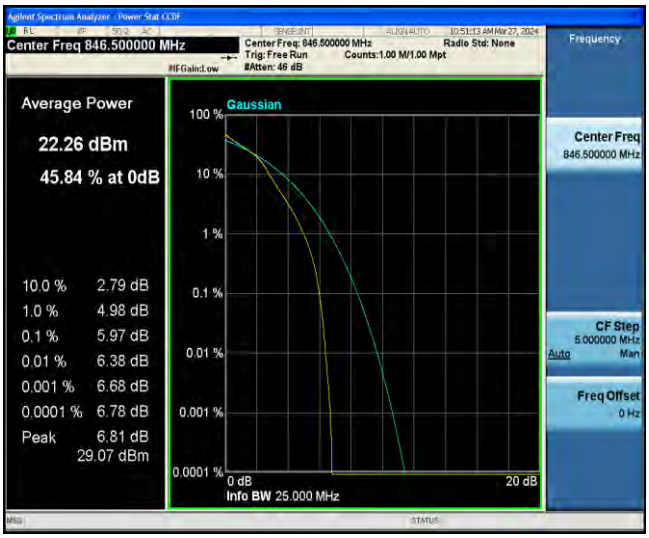
Band5-5MHz-16QAM-20525-1RB#0

Band5-5MHz-16QAM-20525-25RB#0

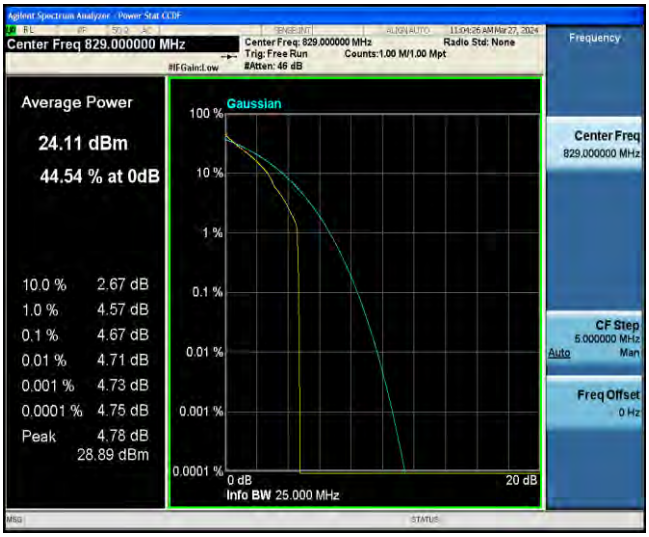
Band5-5MHz-16QAM-20625-1RB#0



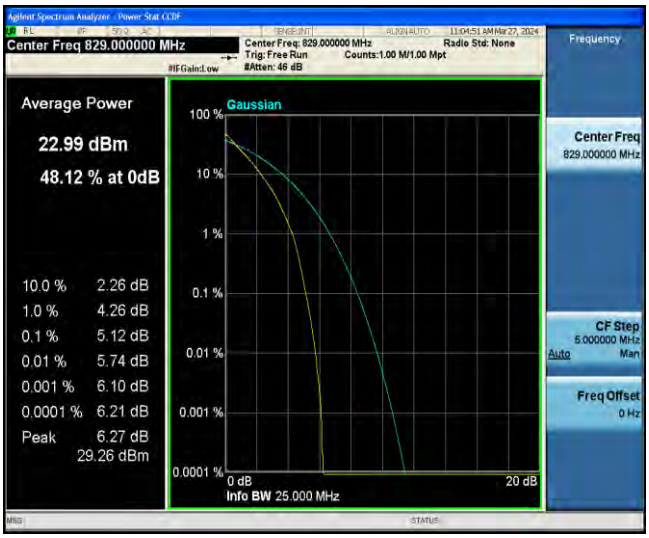
Band5-5MHz-16QAM-20625-25RB#0



Band5-10MHz-QPSK-20450-1RB#0



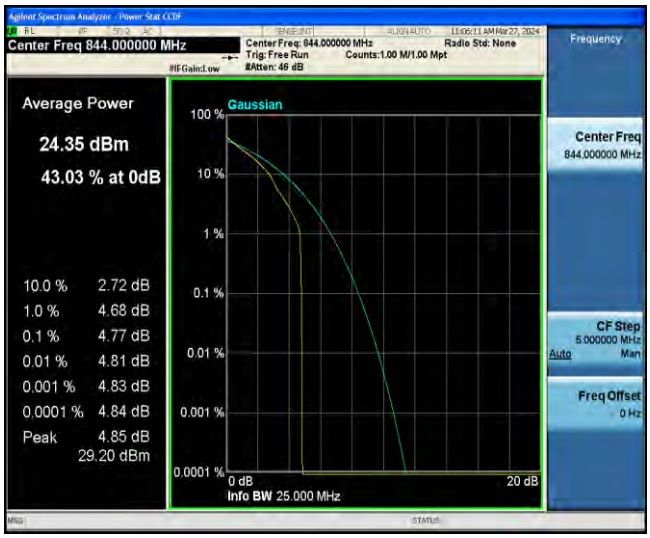
Band5-10MHz-QPSK-20450-50RB#0



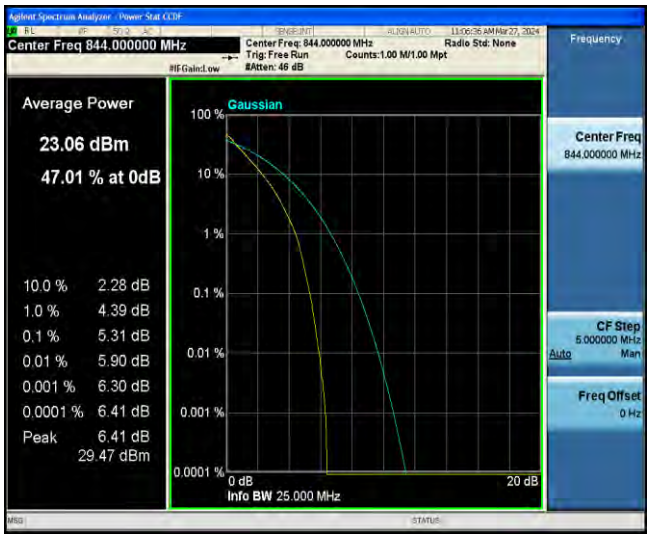
Band5-10MHz-QPSK-20525-1RB#0

Band5-10MHz-QPSK-20525-50RB#0

Band5-10MHz-QPSK-20600-1RB#0

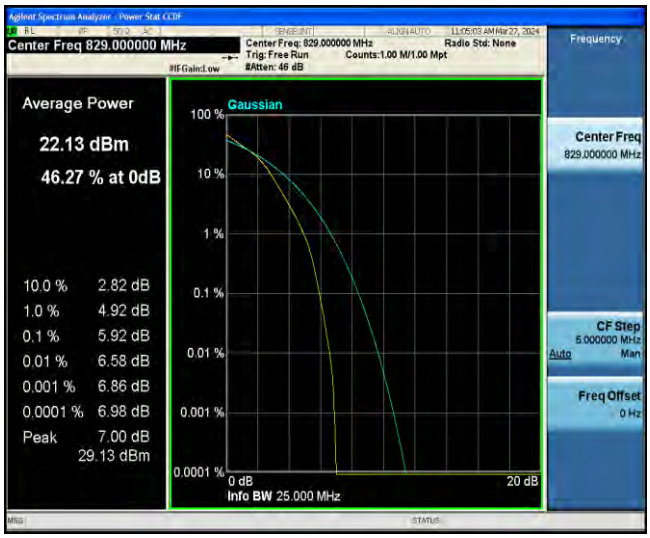


Band5-10MHz-QPSK-20600-50RB#0

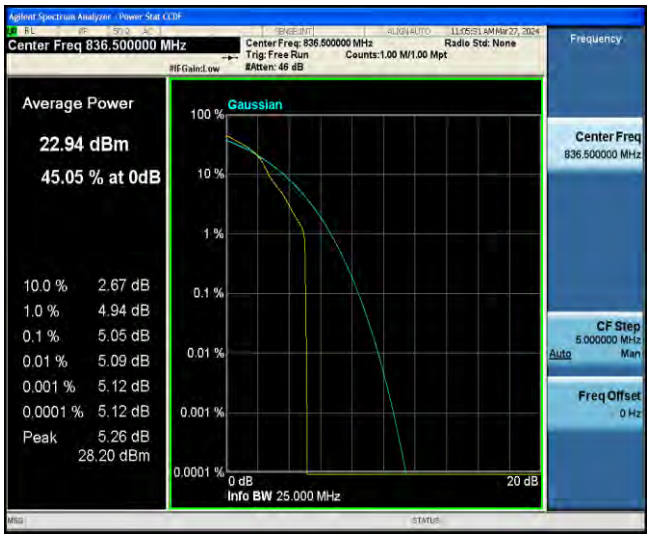


Band5-10MHz-16QAM-20450-1RB#0

Band5-10MHz-16QAM-20450-50RB#0

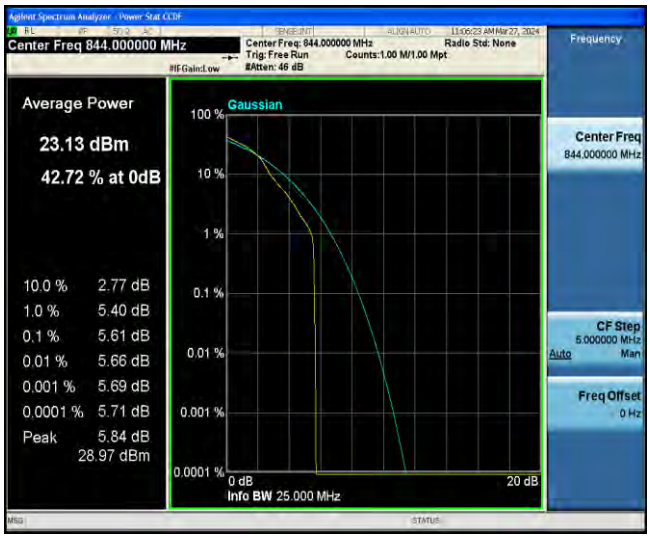


Band5-10MHz-16QAM-20525-1RB#0

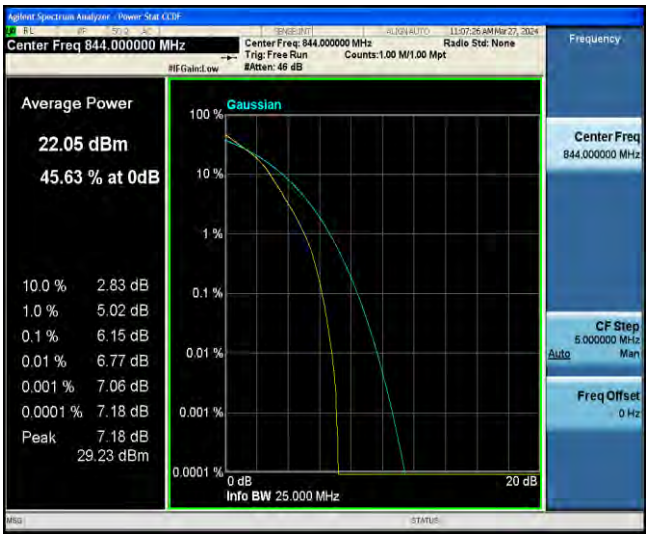


Band5-10MHz-16QAM-20525-50RB#0

Band5-10MHz-16QAM-20600-1RB#0



Band5-10MHz-16QAM-20600-50RB#0


Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
Counts:1.00 M/1.00 Mpt
#Atten: 46 dB
Radio Std: None
Frequency
Average Power
22.05 dBm
45.63 % at 0dB
10.0 % 2.83 dB
1.0 % 5.02 dB
0.1 % 6.15 dB
0.01 % 6.77 dB
0.001 % 7.06 dB
0.0001 % 7.18 dB
Peak 7.18 dB
29.23 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
844.000000 MHz
CF Step
5.000000 MHz
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
Band5	1.4MHz	QPSK	20407	6RB#0	1.0904	1.247	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0901	1.250	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0897	1.247	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0883	1.264	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0917	1.269	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0894	1.265	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6973	2.920	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6941	2.889	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6892	2.906	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6921	2.919	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6909	2.933	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6918	2.917	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5019	4.885	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5047	4.884	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4935	4.879	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5043	4.861	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5045	4.886	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4986	4.850	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9472	9.558	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9813	9.589	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9521	9.538	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9381	9.518	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9663	9.538	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9448	9.513	PASS

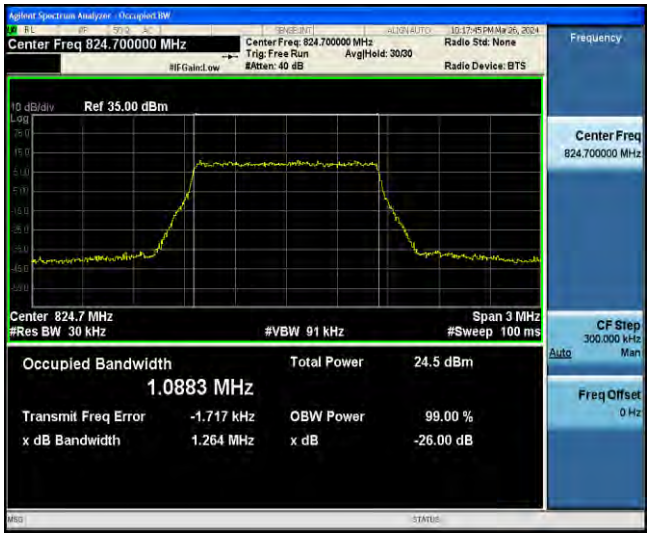
Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20525-6RB#0

Band5-1.4MHz-QPSK-20643-6RB#0

Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20525-6RB#0

Band5-1.4MHz-16QAM-20643-6RB#0

Band5-3MHz-QPSK-20415-15RB#0

Band5-3MHz-QPSK-20525-15RB#0

Band5-3MHz-QPSK-20635-15RB#0

Band5-3MHz-16QAM-20415-15RB#0

Band5-3MHz-16QAM-20525-15RB#0

Band5-3MHz-16QAM-20635-15RB#0

Band5-5MHz-QPSK-20425-25RB#0

Band5-5MHz-QPSK-20525-25RB#0

Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-25RB#0

Band5-5MHz-16QAM-20525-25RB#0

Band5-5MHz-16QAM-20625-25RB#0

Band5-10MHz-QPSK-20450-50RB#0

Band5-10MHz-QPSK-20525-50RB#0

Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20525-50RB#0

Band5-10MHz-16QAM-20600-50RB#0

Agilent Spectrum Analyzer - Occupied BW
Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 5.21 dB
10 dB/div
Ref 35.00 dBm
Center Freq
844.000000 MHz
Center 844 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
2.000000 MHz
Auto
Man
Occupied Bandwidth
8.9448 MHz
Total Power 23.2 dBm
Transmit Freq Error 913 Hz
OBW Power 99.00 %
x dB Bandwidth 9.513 MHz
x dB -26.00 dB
Freq Offset
0 Hz

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-17.22	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-41.11	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-24.39	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-37.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-16.95	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-22.63	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-18.10	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-42.06	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-25.13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-37.93	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-17.16	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-24.44	PASS
Band5	3MHz	QPSK	20415	1RB#0	-15.52	PASS
Band5	3MHz	QPSK	20415	1RB#14	-40.96	PASS
Band5	3MHz	QPSK	20415	15RB#0	-22.19	PASS
Band5	3MHz	QPSK	20635	1RB#0	-41.23	PASS
Band5	3MHz	QPSK	20635	1RB#14	-14.95	PASS
Band5	3MHz	QPSK	20635	15RB#0	-20.92	PASS
Band5	3MHz	16QAM	20415	1RB#0	-15.85	PASS
Band5	3MHz	16QAM	20415	1RB#14	-41.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	-21.29	PASS
Band5	3MHz	16QAM	20635	1RB#0	-40.55	PASS
Band5	3MHz	16QAM	20635	1RB#14	-13.17	PASS
Band5	3MHz	16QAM	20635	15RB#0	-22.33	PASS
Band5	5MHz	QPSK	20425	1RB#0	-18.40	PASS
Band5	5MHz	QPSK	20425	1RB#24	-52.52	PASS
Band5	5MHz	QPSK	20425	25RB#0	-25.78	PASS
Band5	5MHz	QPSK	20625	1RB#0	-52.72	PASS
Band5	5MHz	QPSK	20625	1RB#24	-16.95	PASS
Band5	5MHz	QPSK	20625	25RB#0	-26.00	PASS
Band5	5MHz	16QAM	20425	1RB#0	-19.70	PASS
Band5	5MHz	16QAM	20425	1RB#24	-52.38	PASS
Band5	5MHz	16QAM	20425	25RB#0	-28.02	PASS
Band5	5MHz	16QAM	20625	1RB#0	-52.91	PASS
Band5	5MHz	16QAM	20625	1RB#24	-19.03	PASS
Band5	5MHz	16QAM	20625	25RB#0	-27.90	PASS

Band5	10MHz	QPSK	20450	1RB#0	-20.69	PASS
Band5	10MHz	QPSK	20450	1RB#49	-43.61	PASS
Band5	10MHz	QPSK	20450	50RB#0	-24.95	PASS
Band5	10MHz	QPSK	20600	1RB#0	-43.60	PASS
Band5	10MHz	QPSK	20600	1RB#49	-20.01	PASS
Band5	10MHz	QPSK	20600	50RB#0	-25.60	PASS
Band5	10MHz	16QAM	20450	1RB#0	-20.33	PASS
Band5	10MHz	16QAM	20450	1RB#49	-41.30	PASS
Band5	10MHz	16QAM	20450	50RB#0	-27.31	PASS
Band5	10MHz	16QAM	20600	1RB#0	-42.65	PASS
Band5	10MHz	16QAM	20600	1RB#49	-21.36	PASS
Band5	10MHz	16QAM	20600	50RB#0	-27.26	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0

Band5-1.4MHz-QPSK-20407-1RB#5

Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20643-1RB#0

Band5-1.4MHz-QPSK-20643-1RB#5

Band5-1.4MHz-QPSK-20643-6RB#0

Band5-1.4MHz-16QAM-20407-1RB#0

Band5-1.4MHz-16QAM-20407-1RB#5

Band5-1.4MHz-16QAM-20407-6RB#0

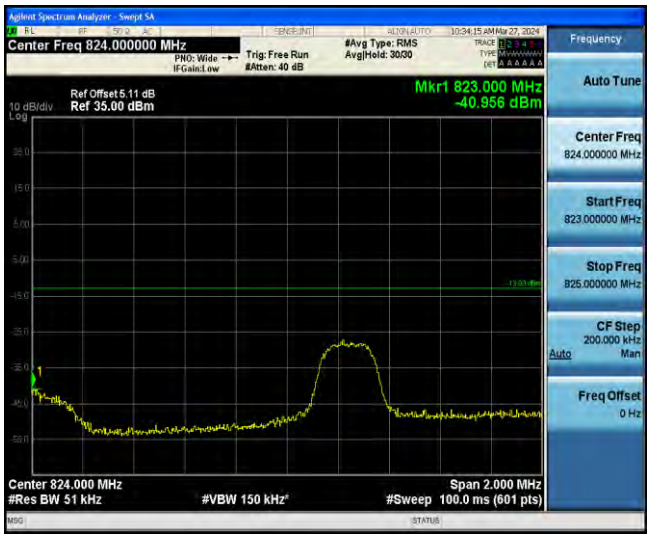
Band5-1.4MHz-16QAM-20643-1RB#0

Band5-1.4MHz-16QAM-20643-1RB#5

Band5-1.4MHz-16QAM-20643-6RB#0

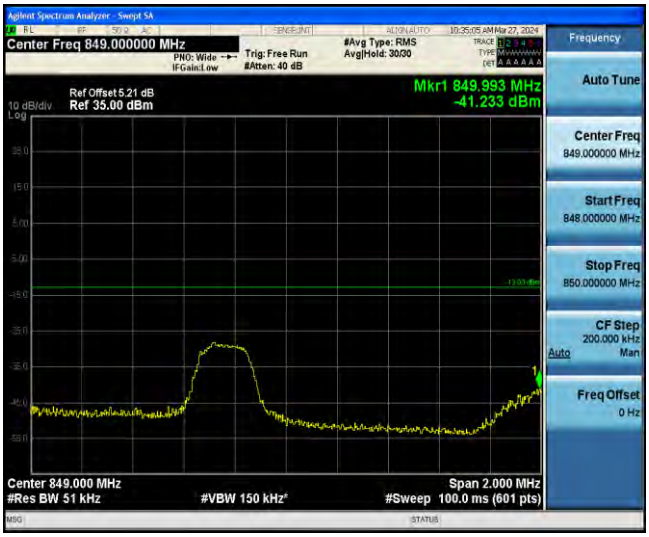
Band5-3MHz-QPSK-20415-1RB#0

Band5-3MHz-QPSK-20415-1RB#14



Band5-3MHz-QPSK-20415-15RB#0

Band5-3MHz-QPSK-20635-1RB#0

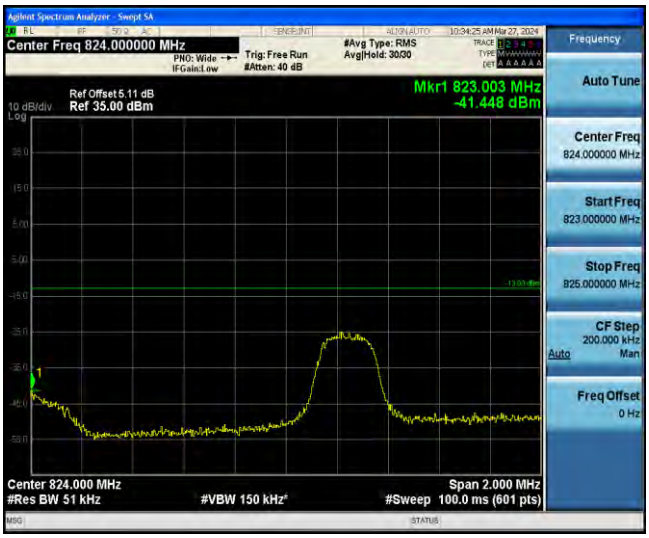


Band5-3MHz-QPSK-20635-1RB#14

Band5-3MHz-QPSK-20635-15RB#0

Band5-3MHz-16QAM-20415-1RB#0

Band5-3MHz-16QAM-20415-1RB#14



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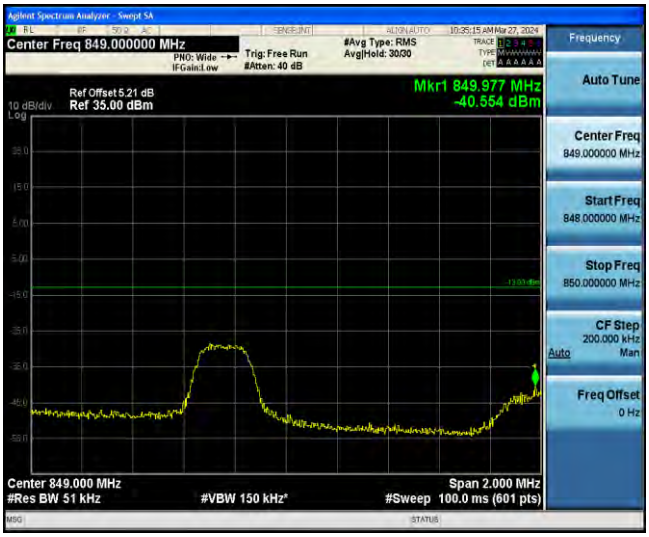
Band5-3MHz-16QAM-20635-1RB#0



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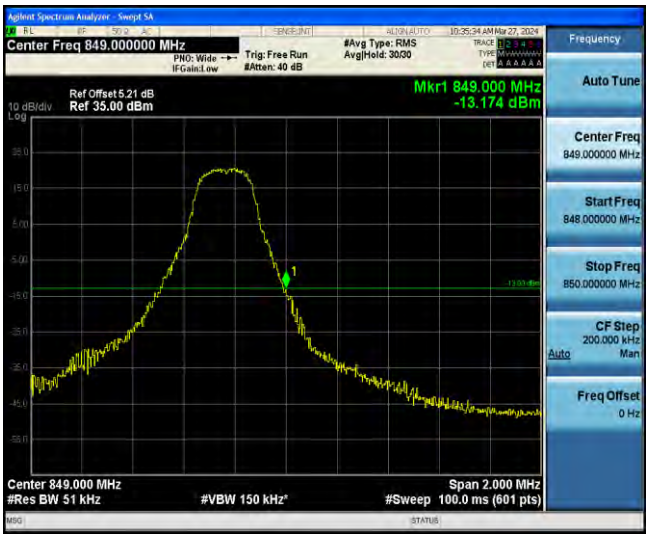


Band5-3MHz-16QAM-20635-15RB#0

Band5-5MHz-QPSK-20425-1RB#0

Band5-5MHz-QPSK-20425-1RB#24

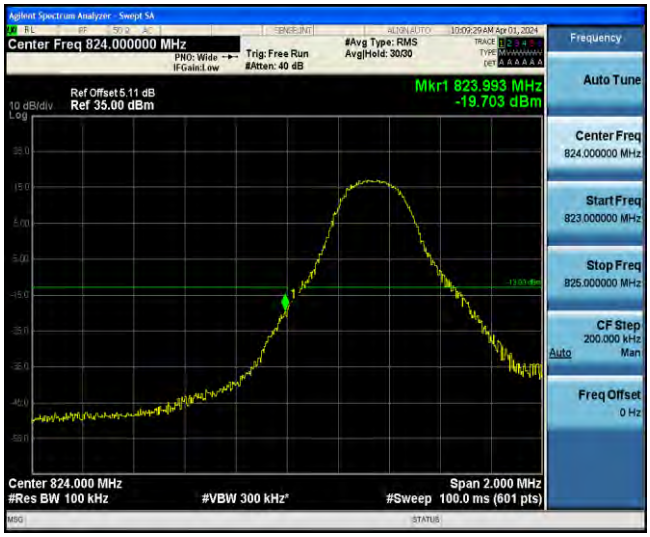
Band5-5MHz-QPSK-20425-25RB#0

Band5-5MHz-QPSK-20625-1RB#0

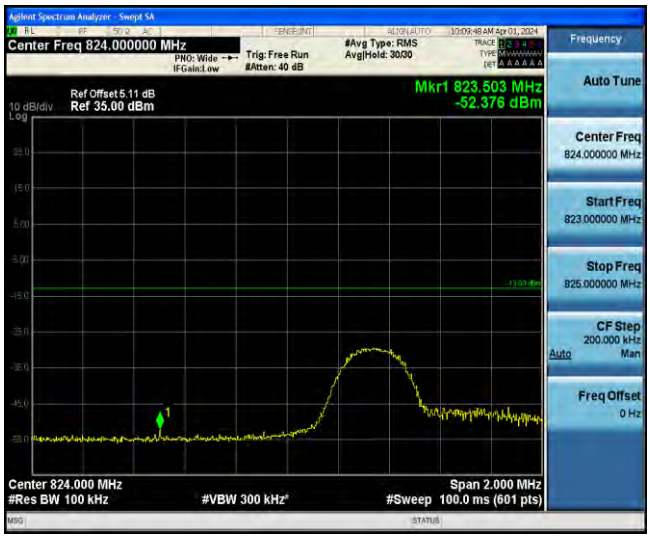
Band5-5MHz-QPSK-20625-1RB#24

Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-1RB#0



Band5-5MHz-16QAM-20425-1RB#24



Band5-5MHz-16QAM-20425-25RB#0

Band5-5MHz-16QAM-20625-1RB#0

Band5-5MHz-16QAM-20625-1RB#24

Band5-5MHz-16QAM-20625-25RB#0

Band5-10MHz-QPSK-20450-1RB#0

Band5-10MHz-QPSK-20450-1RB#49

Band5-10MHz-QPSK-20450-50RB#0

Band5-10MHz-QPSK-20600-1RB#0

Band5-10MHz-QPSK-20600-1RB#49

Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-1RB#0

Band5-10MHz-16QAM-20450-1RB#49

Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20600-1RB#0

Band5-10MHz-16QAM-20600-1RB#49

Band5-10MHz-16QAM-20600-50RB#0

Agilent Spectrum Analyzer - Swept SA
Center Freq 849.000000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:59:25 AM Mar 27, 2024
Frequency
Auto Tune
Ref Offset 5.21 dB
10 dB/div
Ref 35.00 dBm
Log
Mkr1 849.010 MHz
-27.263 dBm
Center Freq
849.000000 MHz
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
Center 849.000 MHz
#Res BW 200 kHz
#VBW 620 kHz*
Span 2.000 MHz
#Sweep 100.0 ms (601 pts)
MSG
STATUS

Appendix E: Conducted Spurious Emission

Test Result

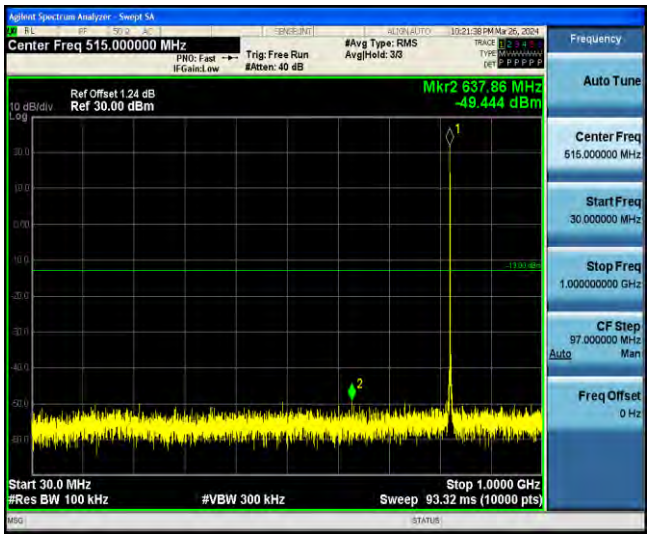
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band 5	1.4MHz	QPSK	20407	1RB#0	Range1:30~1000MHz	-49.44	PASS
Band 5	1.4MHz	QPSK	20407	1RB#0	Range2:1000~10000MHz	-40.54	PASS
Band 5	1.4MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-49.94	PASS
Band 5	1.4MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-36.7	PASS
Band 5	1.4MHz	QPSK	20643	1RB#0	Range1:30~1000MHz	-49.42	PASS
Band 5	1.4MHz	QPSK	20643	1RB#0	Range2:1000~10000MHz	-37.26	PASS
Band 5	1.4MHz	16QAM	20407	1RB#0	Range1:30~1000MHz	-49.76	PASS
Band 5	1.4MHz	16QAM	20407	1RB#0	Range2:1000~10000MHz	-43.06	PASS
Band 5	1.4MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-50.12	PASS
Band 5	1.4MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-38.94	PASS
Band 5	1.4MHz	16QAM	20643	1RB#0	Range1:30~1000MHz	-49.35	PASS
Band 5	1.4MHz	16QAM	20643	1RB#0	Range2:1000~10000MHz	-41.8	PASS
Band 5	3MHz	QPSK	20415	1RB#0	Range1:30~1000MHz	-49.11	PASS
Band 5	3MHz	QPSK	20415	1RB#0	Range2:1000~10000MHz	-42.54	PASS
Band 5	3MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-50.31	PASS
Band 5	3MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-42.95	PASS
Band 5	3MHz	QPSK	20635	1RB#0	Range1:30~1000MHz	-48.4	PASS
Band	3MHz	QPSK	20635	1RB#0	Range2:1000~10000M	-41.4	PAS

5					Hz		S
Band 5	3MHz	16QAM	20415	1RB#0	Range1:30~1000MHz	-48.94	PASS
Band 5	3MHz	16QAM	20415	1RB#0	Range2:1000~10000MHz	-42.39	PASS
Band 5	3MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-48.63	PASS
Band 5	3MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-43.9	PASS
Band 5	3MHz	16QAM	20635	1RB#0	Range1:30~1000MHz	-49.48	PASS
Band 5	3MHz	16QAM	20635	1RB#0	Range2:1000~10000MHz	-40.7	PASS
Band 5	5MHz	QPSK	20425	1RB#0	Range1:30~1000MHz	-48.63	PASS
Band 5	5MHz	QPSK	20425	1RB#0	Range2:1000~10000MHz	-42.89	PASS
Band 5	5MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-49.61	PASS
Band 5	5MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-40.6	PASS
Band 5	5MHz	QPSK	20625	1RB#0	Range1:30~1000MHz	-48.73	PASS
Band 5	5MHz	QPSK	20625	1RB#0	Range2:1000~10000MHz	-37.79	PASS
Band 5	5MHz	16QAM	20425	1RB#0	Range1:30~1000MHz	-49.39	PASS
Band 5	5MHz	16QAM	20425	1RB#0	Range2:1000~10000MHz	-42.22	PASS
Band 5	5MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-49.83	PASS
Band 5	5MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-42.48	PASS
Band 5	5MHz	16QAM	20625	1RB#0	Range1:30~1000MHz	-49.41	PASS
Band 5	5MHz	16QAM	20625	1RB#0	Range2:1000~10000MHz	-42.55	PASS
Band 5	10MHz	QPSK	20450	1RB#0	Range1:30~1000MHz	-49.79	PASS
Band 5	10MHz	QPSK	20450	1RB#0	Range2:1000~10000MHz	-43.03	PASS
Band 5	10MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-49.55	PASS

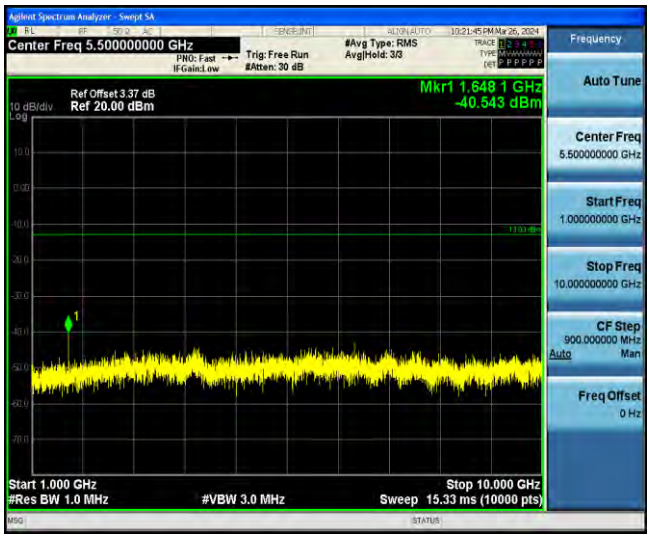
Band 5	10MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-42.8	PASS
Band 5	10MHz	QPSK	20600	1RB#0	Range1:30~1000MHz	-49.13	PASS
Band 5	10MHz	QPSK	20600	1RB#0	Range2:1000~10000MHz	-38.59	PASS
Band 5	10MHz	16QAM	20450	1RB#0	Range1:30~1000MHz	-49.79	PASS
Band 5	10MHz	16QAM	20450	1RB#0	Range2:1000~10000MHz	-42.88	PASS
Band 5	10MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-49.38	PASS
Band 5	10MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-41.62	PASS
Band 5	10MHz	16QAM	20600	1RB#0	Range1:30~1000MHz	-49.67	PASS
Band 5	10MHz	16QAM	20600	1RB#0	Range2:1000~10000MHz	-43.52	PASS

Test Graphs

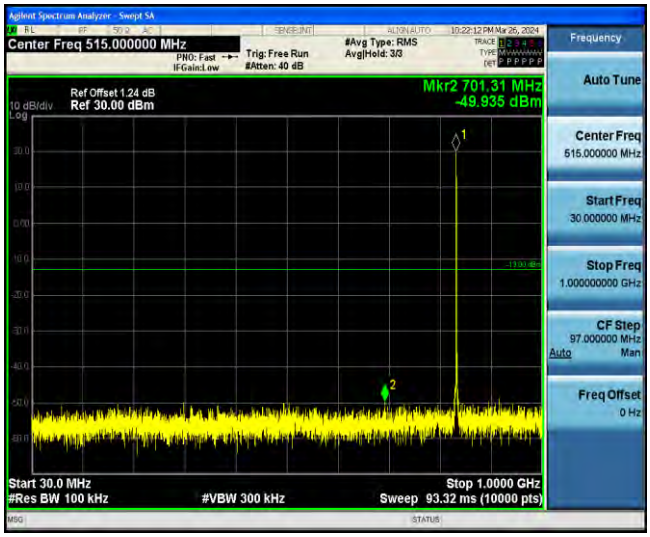
Band5-1.4MHz-QPSK-20407-1RB#0-Range1:30~1000MHz



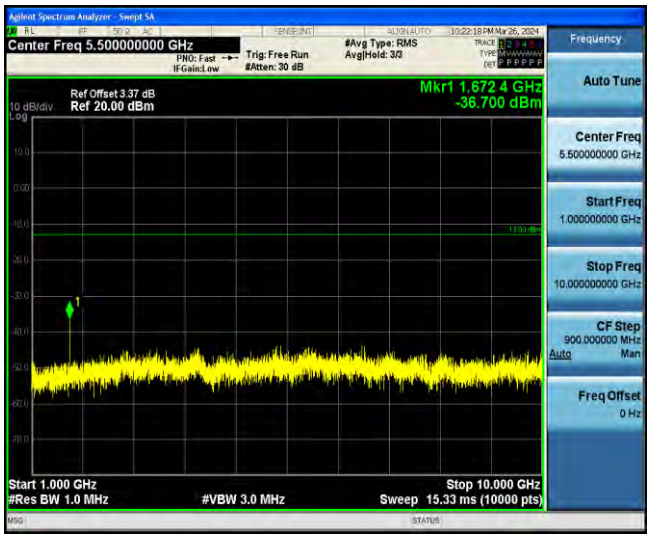
Band5-1.4MHz-QPSK-20407-1RB#0-Range2:1000~10000MHz



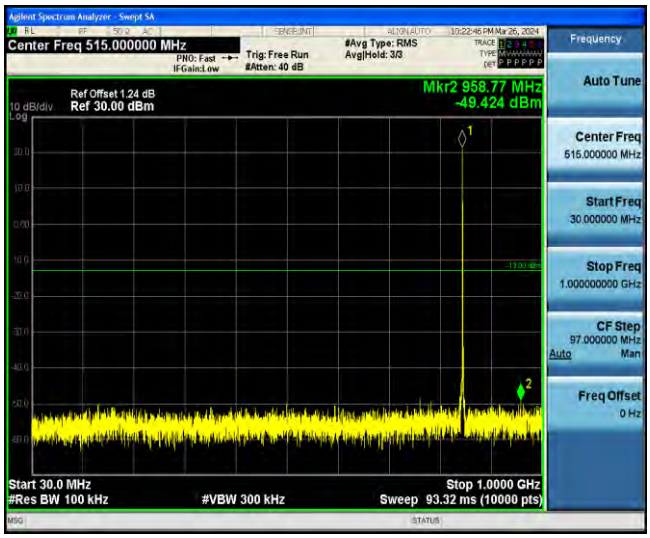
Band5-1.4MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1000MHz



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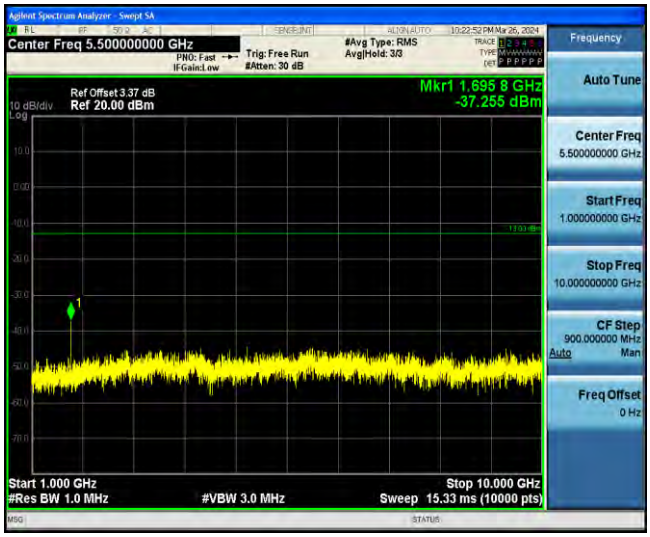
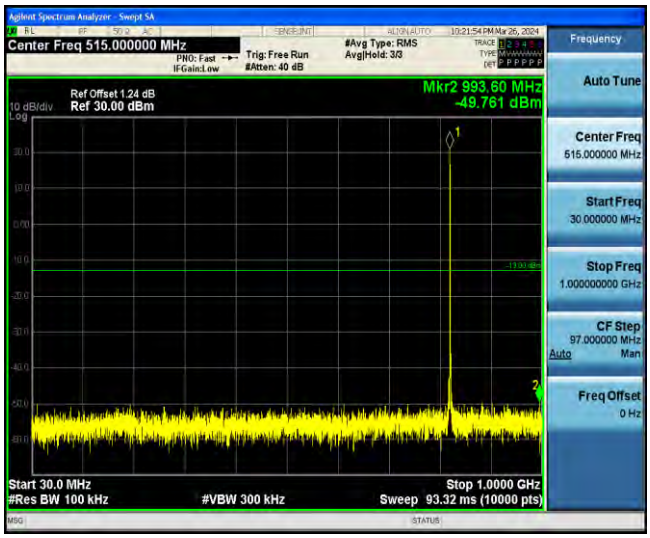


Band5-1.4MHz-16QAM-20407-1RB#0-Range1:30~1000MHz



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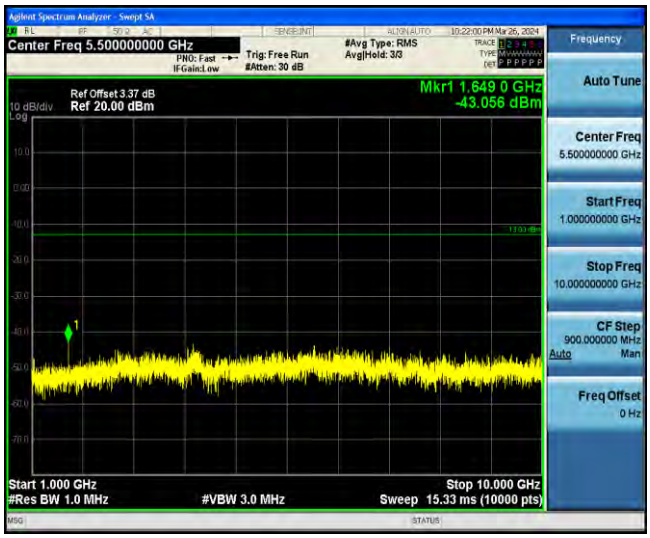

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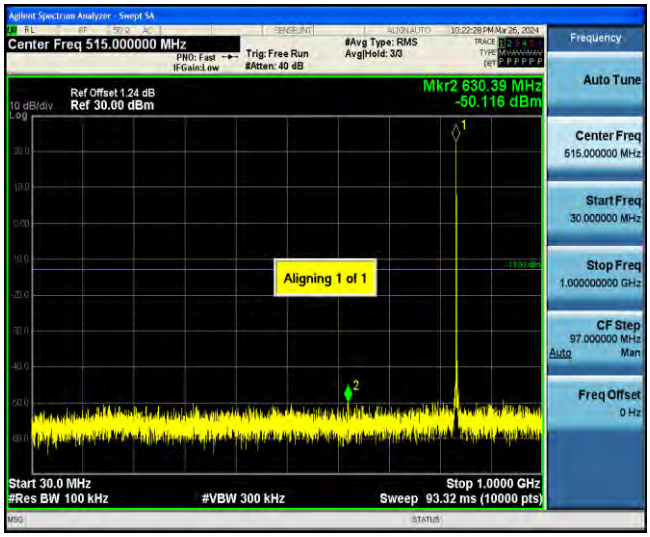

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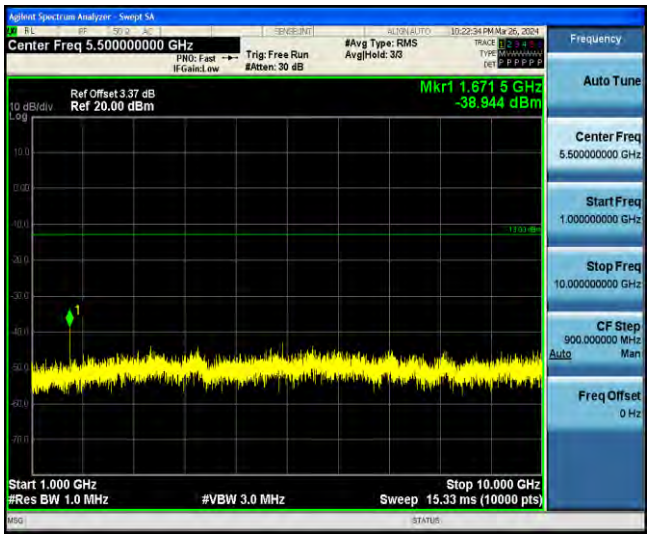
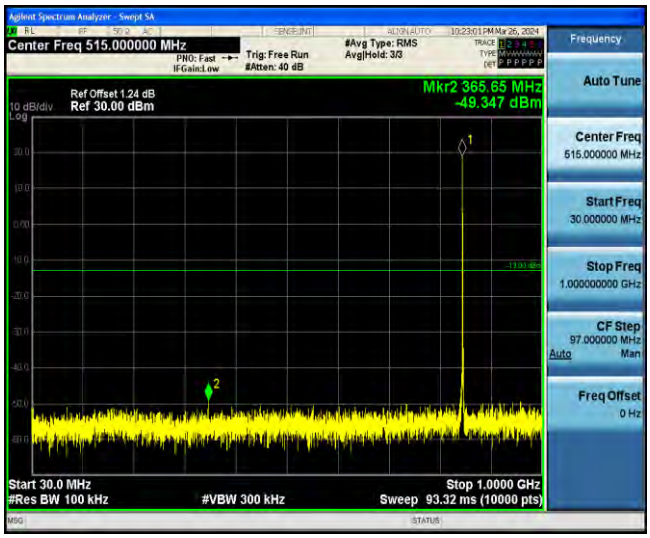
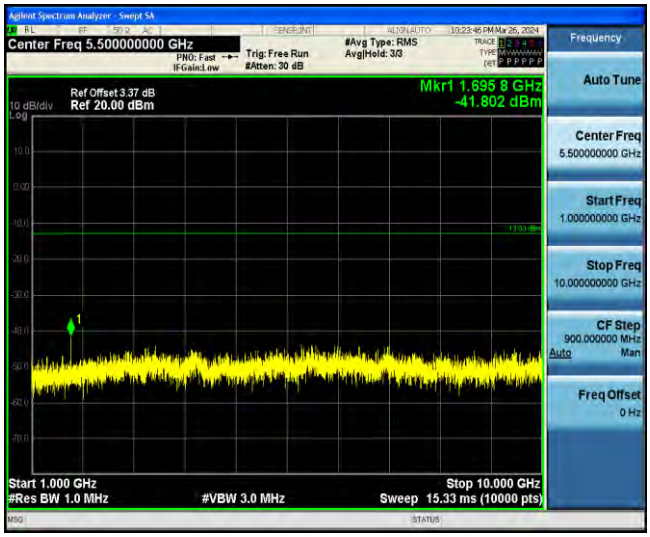


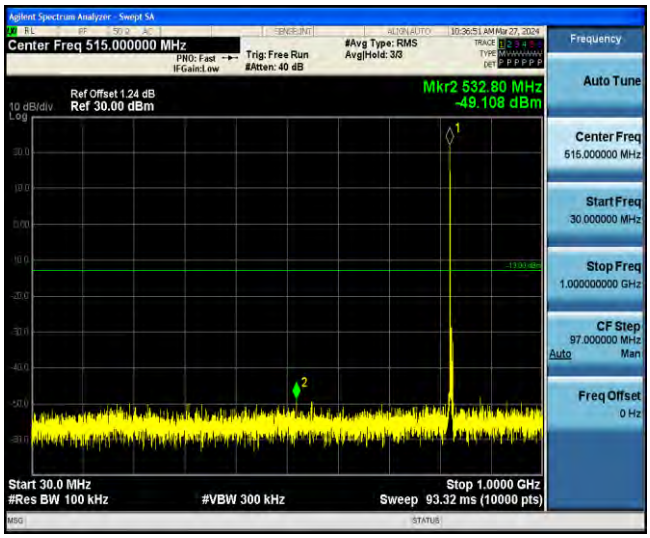
Band5-1.4MHz-16QAM-20643-1RB#0-Range1:30~1000MHz



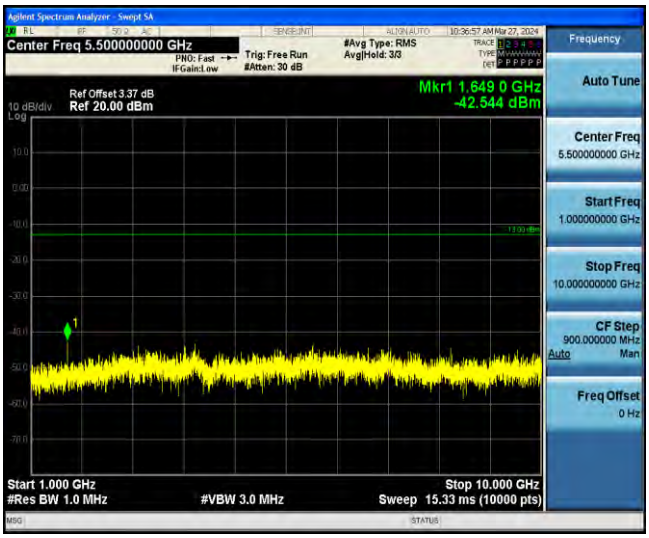
Band5-1.4MHz-16QAM-20643-1RB#0-Range2:1000~10000MHz



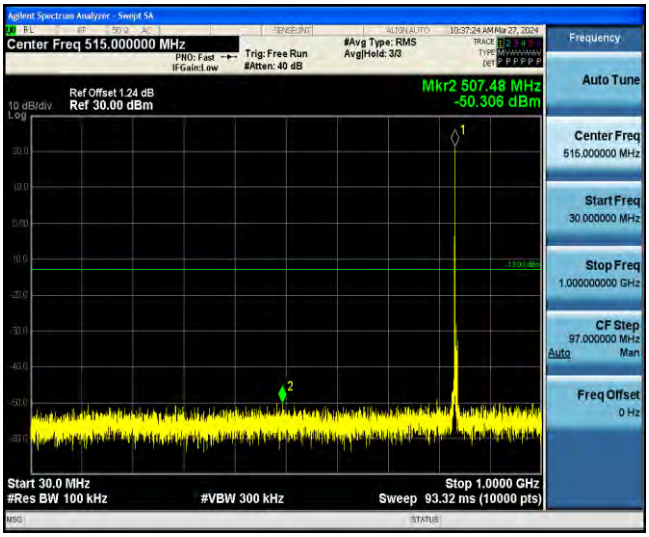
Band5-3MHz-QPSK-20415-1RB#0-Range1:30~1000MHz



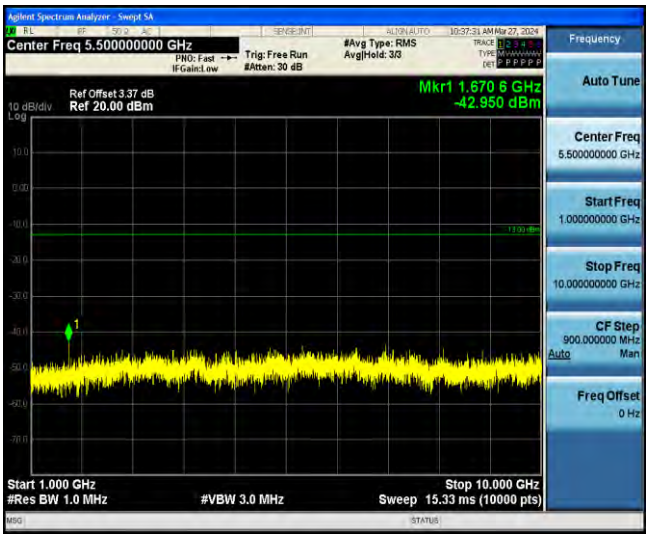
Band5-3MHz-QPSK-20415-1RB#0-Range2:1000~10000MHz



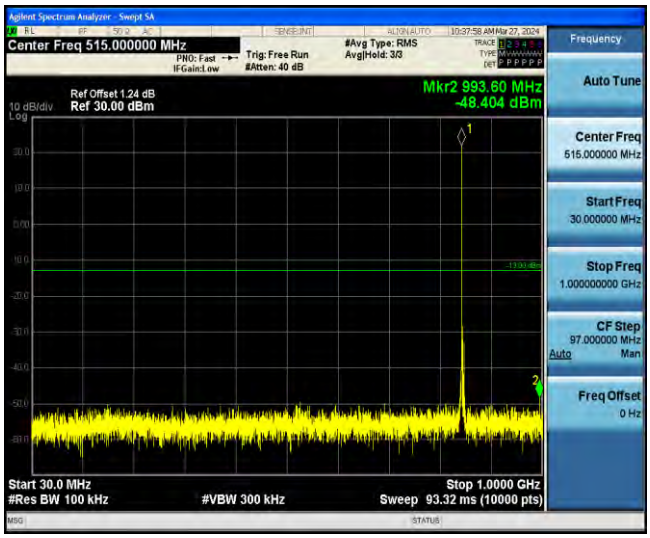
Band5-3MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



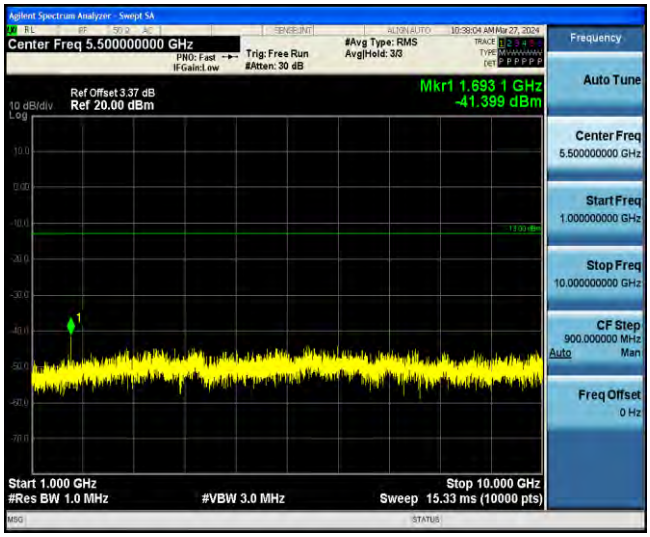
Band5-3MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



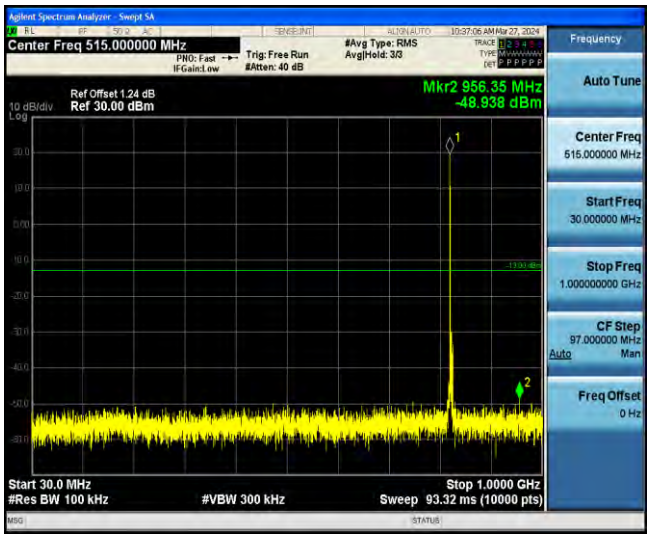
Band5-3MHz-QPSK-20635-1RB#0-Range1:30~1000MHz



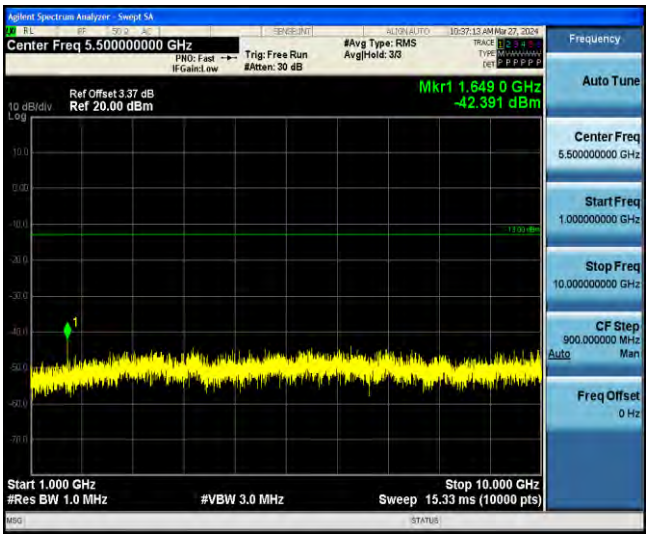
Band5-3MHz-QPSK-20635-1RB#0-Range2:1000~10000MHz



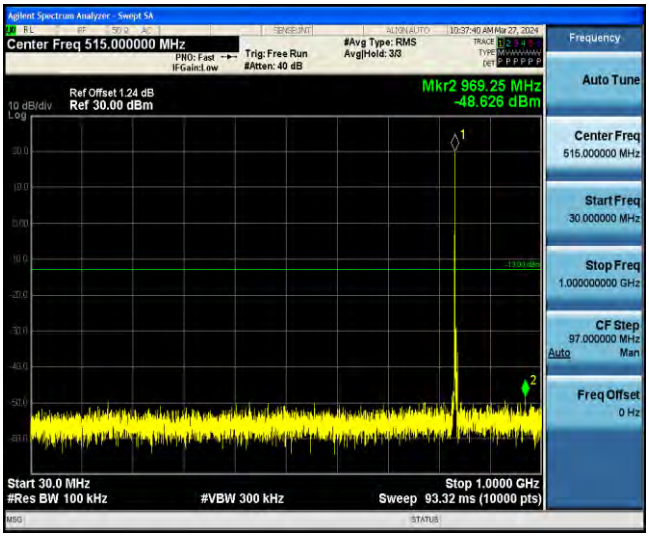
Band5-3MHz-16QAM-20415-1RB#0-Range1:30~1000MHz



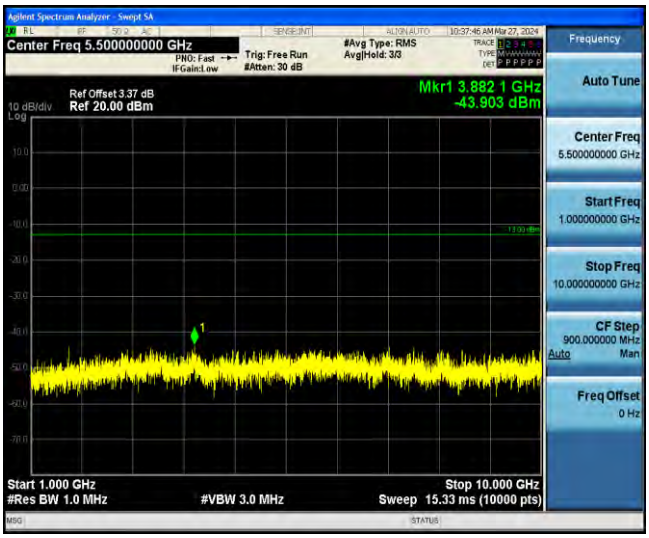
Band5-3MHz-16QAM-20415-1RB#0-Range2:1000~10000MHz



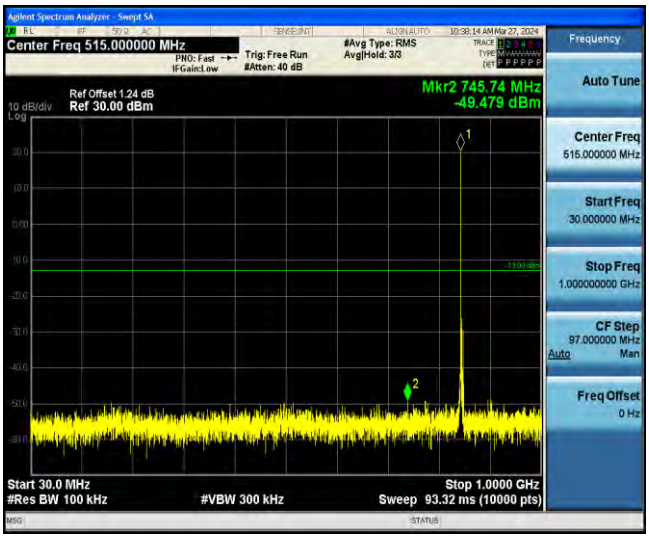
Band5-3MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



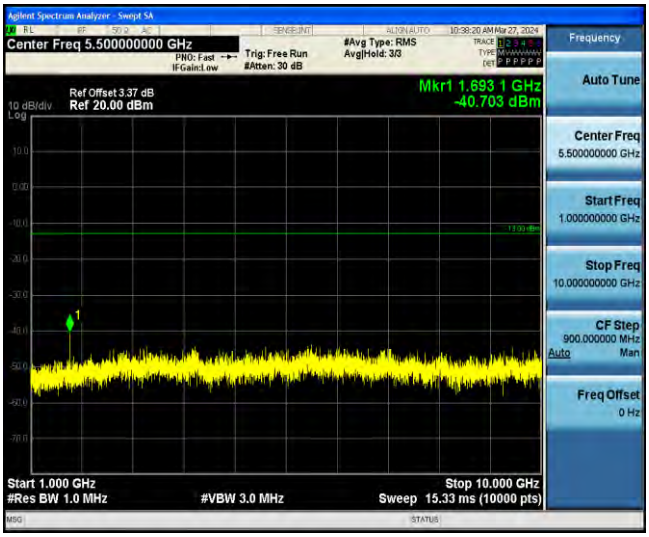
Band5-3MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



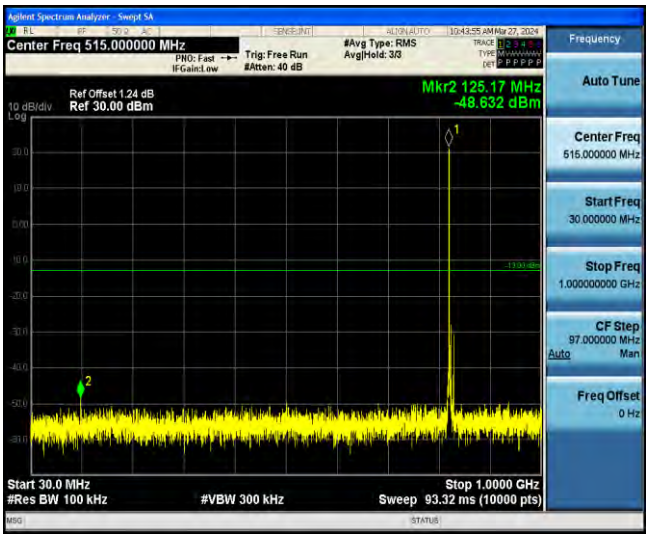
Band5-3MHz-16QAM-20635-1RB#0-Range1:30~1000MHz



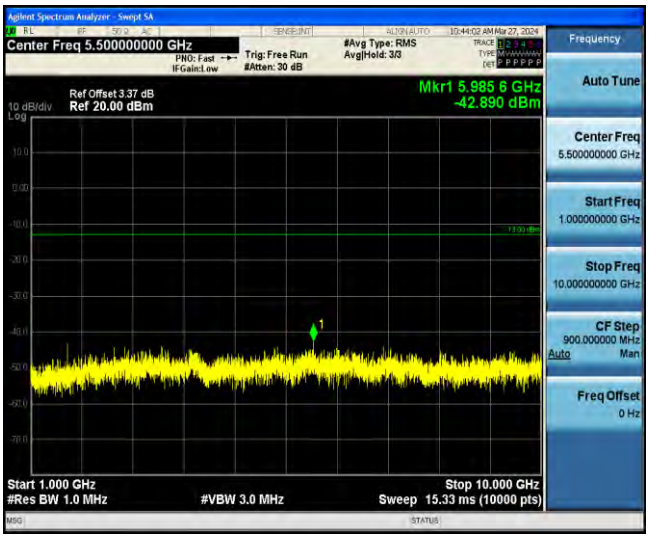
Band5-3MHz-16QAM-20635-1RB#0-Range2:1000~10000MHz



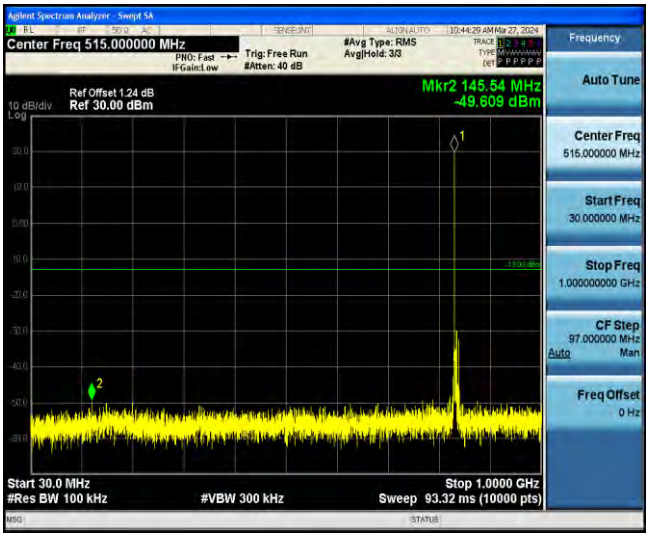
Band5-5MHz-QPSK-20425-1RB#0-Range1:30~1000MHz



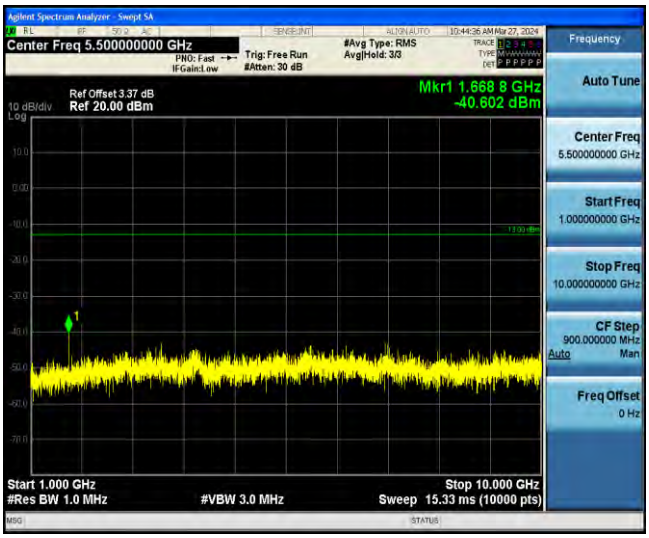
Band5-5MHz-QPSK-20425-1RB#0-Range2:1000~10000MHz



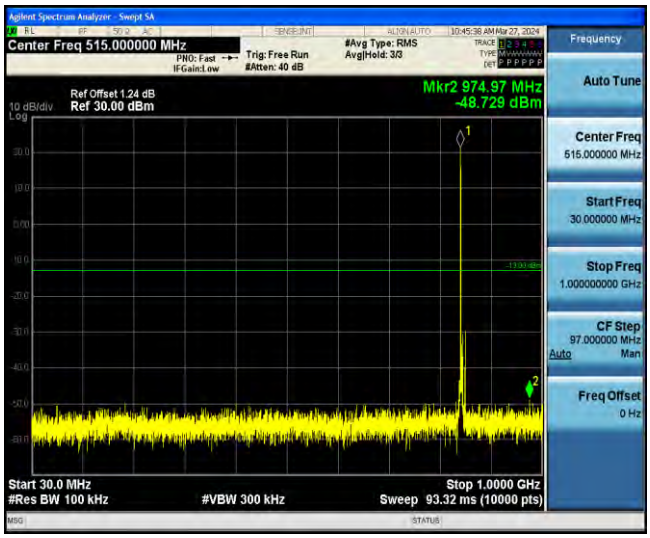
Band5-5MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



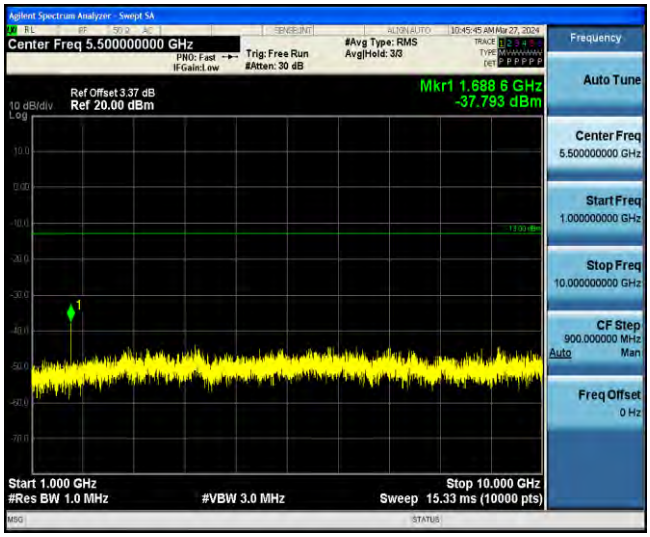
Band5-5MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



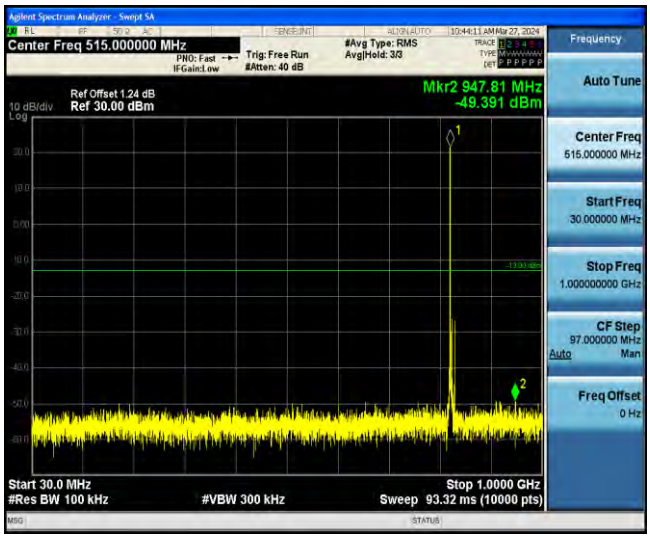
Band5-5MHz-QPSK-20625-1RB#0-Range1:30~1000MHz



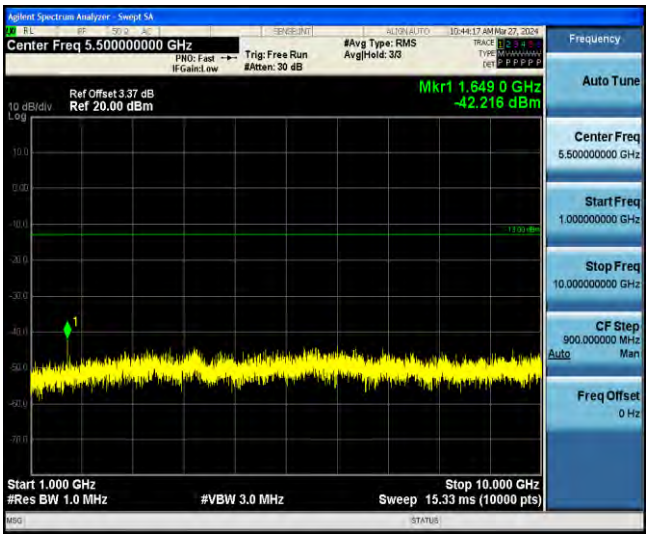
Band5-5MHz-QPSK-20625-1RB#0-Range2:1000~10000MHz



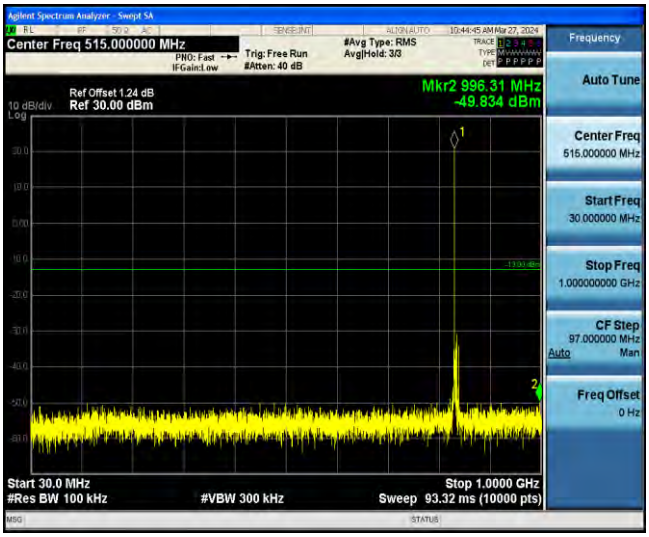
Band5-5MHz-16QAM-20425-1RB#0-Range1:30~1000MHz



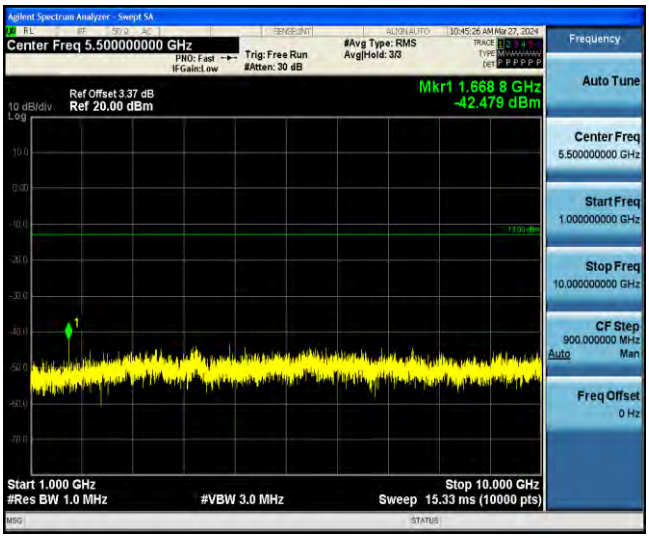
Band5-5MHz-16QAM-20425-1RB#0-Range2:1000~10000MHz



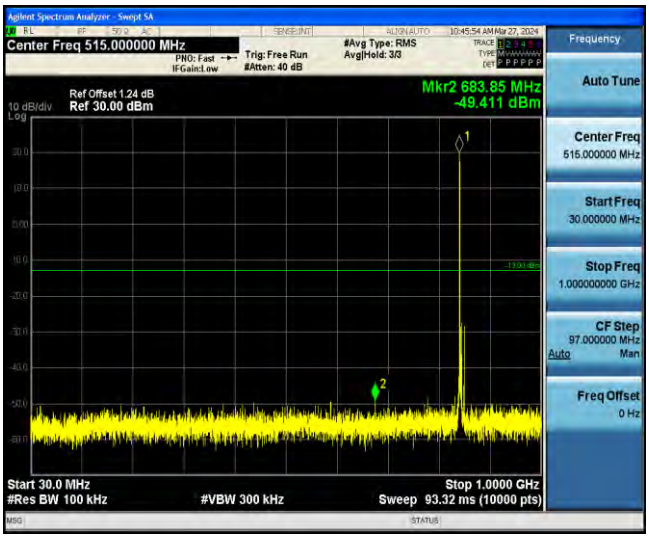
Band5-5MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



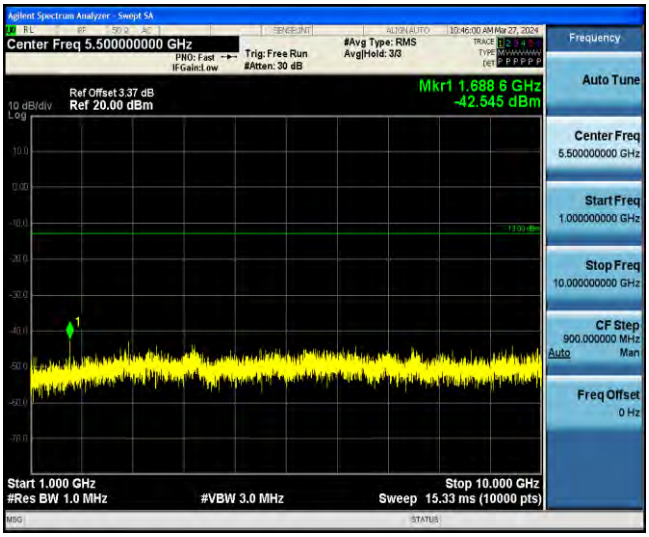
Band5-5MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



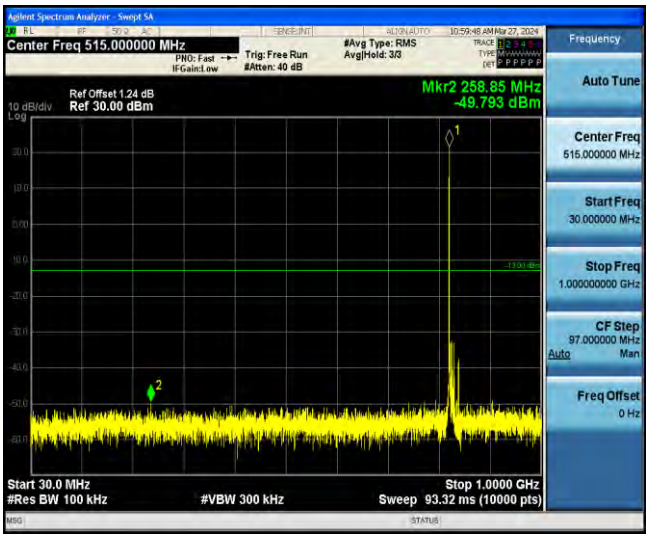
Band5-5MHz-16QAM-20625-1RB#0-Range1:30~1000MHz



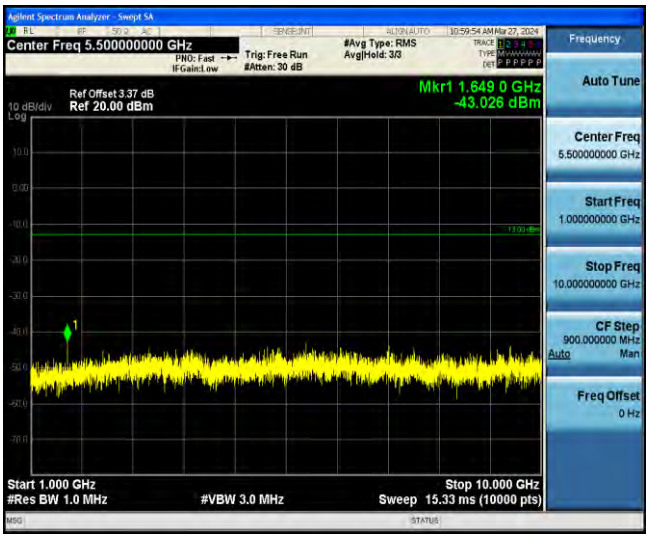
Band5-5MHz-16QAM-20625-1RB#0-Range2:1000~10000MHz



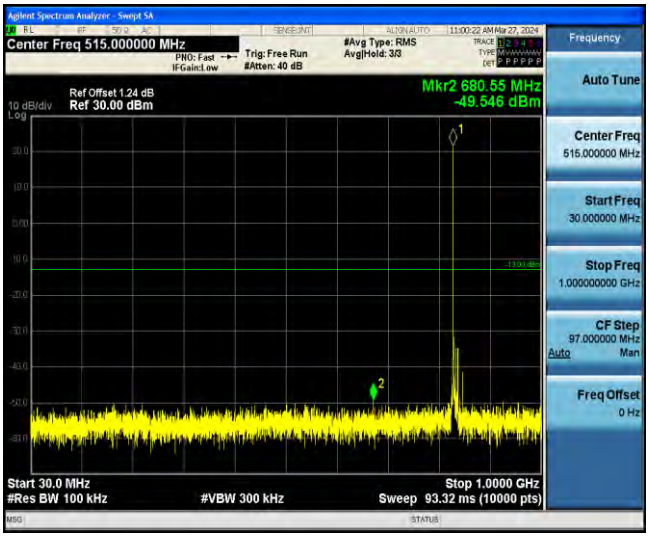
Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



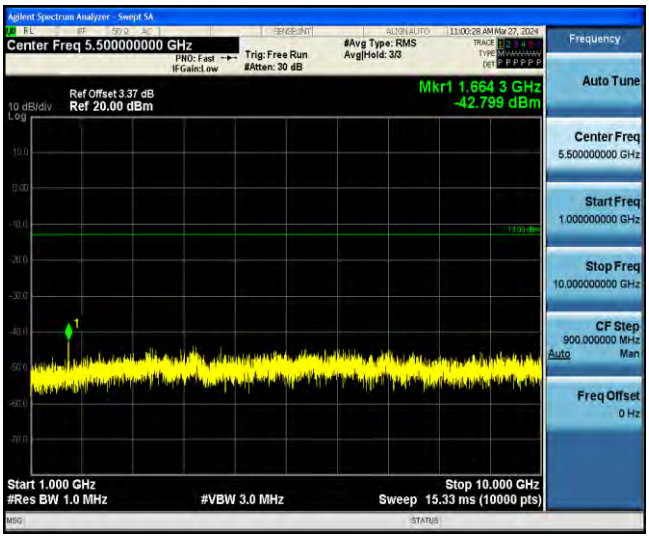
Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



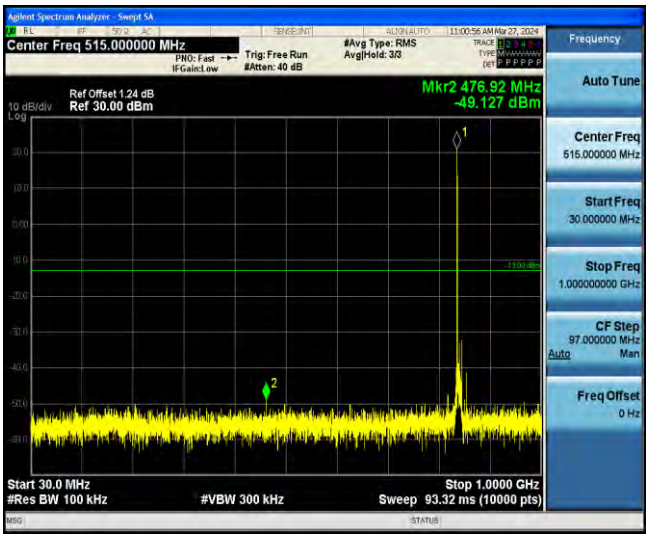
Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



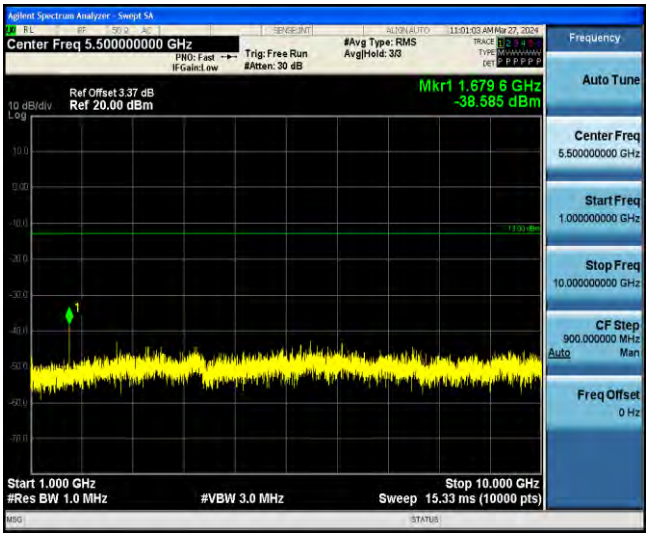
Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



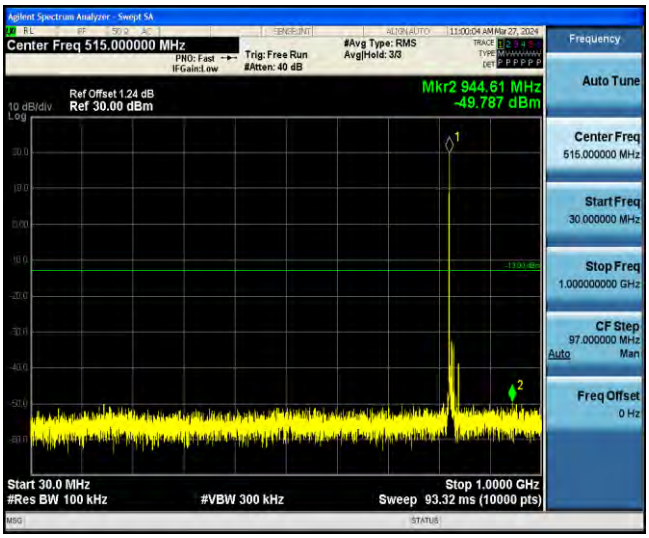
Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



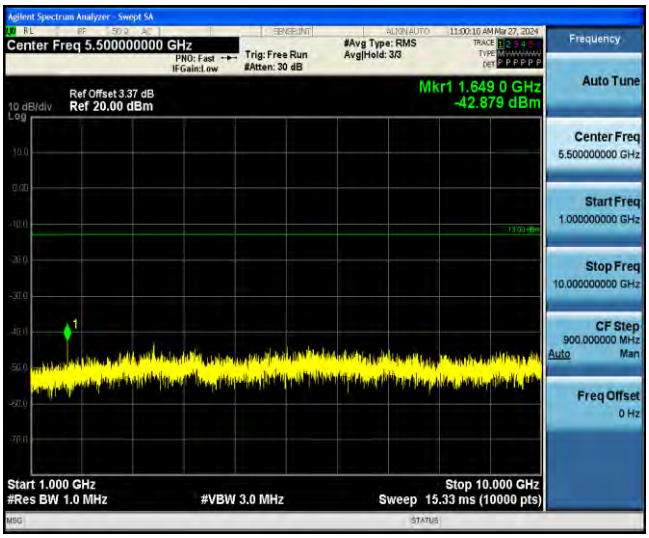
Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



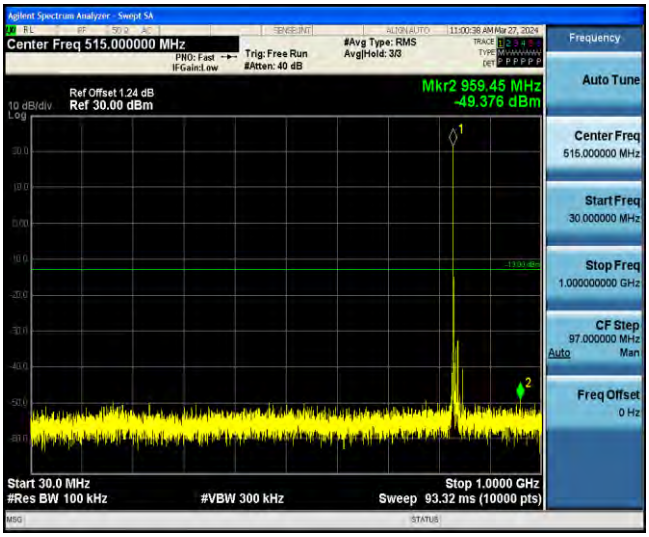
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



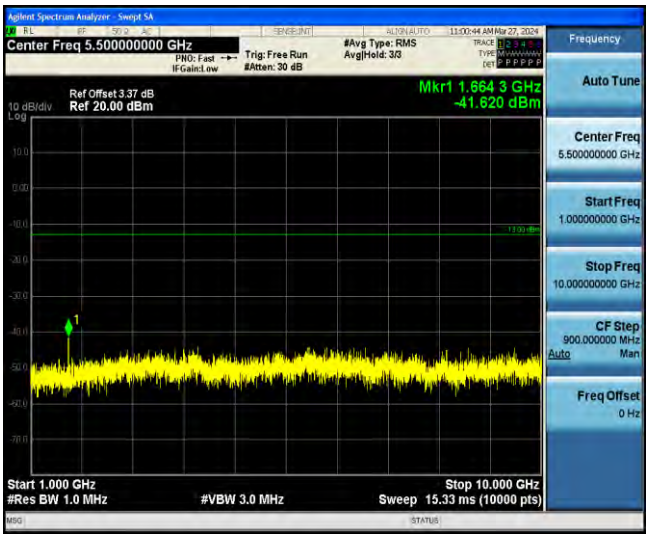
Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



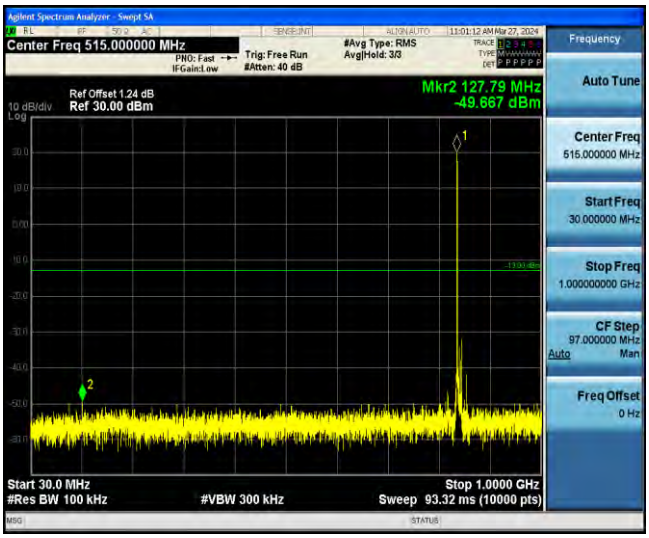
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



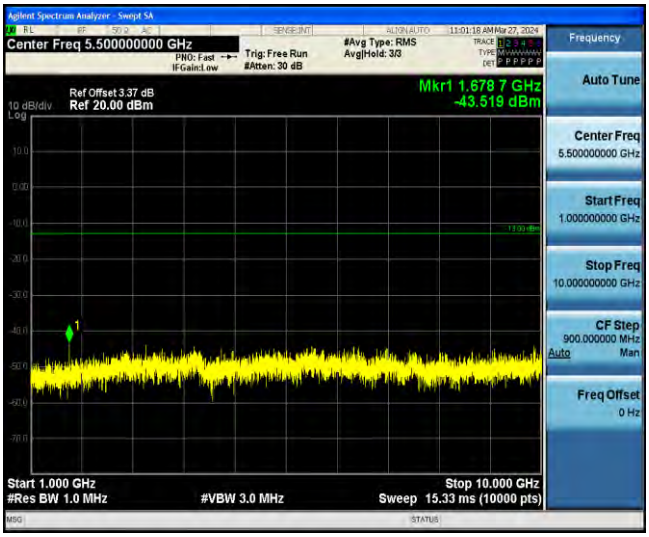
Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	VL	NT	-4.26	-0.005166	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VN	NT	-2.81	-0.003407	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VH	NT	-3.27	-0.003965	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-2.12	-0.002534	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	-3.14	-0.003754	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-2.79	-0.003335	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VL	NT	-2.25	-0.002652	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VN	NT	-3.66	-0.004315	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VH	NT	-2.79	-0.003289	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VL	NT	-4.33	-0.005250	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VN	NT	-3.89	-0.004717	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VH	NT	-3.87	-0.004693	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	-3.77	-0.004507	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	-2.63	-0.003144	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	-4.29	-0.005129	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VL	NT	-1.80	-0.002122	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VN	NT	3.00	0.003536	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VH	NT	-2.06	-0.002428	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VL	NT	-1.98	-0.002399	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VN	NT	1.46	0.001769	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VH	NT	-3.46	-0.004191	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	2.53	0.003025	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	-3.28	-0.003921	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	1.89	0.002259	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VL	NT	-3.67	-0.004330	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VN	NT	-2.85	-0.003363	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VH	NT	-3.73	-0.004401	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VL	NT	-4.11	-0.004979	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VN	NT	-1.85	-0.002241	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VH	NT	-2.50	-0.003028	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VL	NT	-2.24	-0.002678	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	-2.34	-0.002797	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	-2.12	-0.002534	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VL	NT	-3.57	-0.004212	±2.5	PASS

Band5	3MHz	16QAM	20635	15RB#0	VN	NT	-2.00	-0.002360	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VH	NT	-2.30	-0.002714	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VL	NT	-2.76	-0.003339	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VN	NT	-3.61	-0.004368	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VH	NT	-2.42	-0.002928	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-1.75	-0.002092	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	-1.50	-0.001793	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-3.06	-0.003658	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VL	NT	-1.49	-0.001760	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VN	NT	-3.22	-0.003804	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VH	NT	-3.30	-0.003898	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VL	NT	-3.19	-0.003860	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VN	NT	-2.99	-0.003618	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VH	NT	-3.00	-0.003630	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	-1.49	-0.001781	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	-1.81	-0.002164	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	-3.47	-0.004148	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VL	NT	-1.49	-0.001760	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VN	NT	-2.95	-0.003485	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VH	NT	-2.87	-0.003390	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.58	-0.001906	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-2.46	-0.002967	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	1.25	0.001494	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.56	-0.003060	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	2.34	0.002797	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-2.58	-0.003057	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.79	-0.002121	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-1.92	-0.002275	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-1.63	-0.001966	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-2.04	-0.002461	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.96	-0.002343	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-3.51	-0.004196	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-2.37	-0.002833	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-2.84	-0.003365	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-4.32	-0.005118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-2.96	-0.003507	±2.5	PASS

Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-3.87	-0.004693	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-4.18	-0.005069	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-4.39	-0.005323	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-3.94	-0.004777	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-5.90	-0.007154	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-2.43	-0.002905	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-1.40	-0.001674	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-2.59	-0.003096	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	1.36	0.001626	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-3.76	-0.004495	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	-2.78	-0.003277	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	-2.87	-0.003383	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-2.32	-0.002735	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	-2.90	-0.003419	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	1.11	0.001308	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-4.62	-0.005602	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-4.35	-0.005275	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-5.17	-0.006269	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-4.57	-0.005541	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-3.73	-0.004523	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-3.36	-0.004017	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-2.49	-0.002977	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-3.48	-0.004160	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-3.90	-0.004662	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-2.39	-0.002857	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-2.16	-0.002546	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-3.10	-0.003654	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-2.78	-0.003277	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-3.16	-0.003725	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	2.40	0.002829	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	-2.97	-0.003598	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	-2.98	-0.003610	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	-2.73	-0.003307	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	-2.12	-0.002568	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	-3.80	-0.004603	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	-3.31	-0.003957	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	-2.61	-0.003120	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	1.87	0.002236	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-2.84	-0.003395	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	-2.46	-0.002941	±2.5	PASS

Band5	3MHz	QPSK	20635	15RB#0	NV	-30	-2.47	-0.002914	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	-3.58	-0.004224	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	-2.62	-0.003091	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	-3.50	-0.004130	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	-3.97	-0.004684	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	-2.95	-0.003574	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	1.41	0.001708	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	-2.58	-0.003125	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-2.04	-0.002471	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-2.13	-0.002580	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-2.85	-0.003407	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	-2.56	-0.003060	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-2.42	-0.002893	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-2.98	-0.003562	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	2.47	0.002953	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	-2.91	-0.003434	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	-2.92	-0.003445	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	-3.91	-0.004614	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	-3.77	-0.004448	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	-3.01	-0.003552	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-4.60	-0.005566	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-5.38	-0.006509	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	-3.30	-0.003993	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	-4.66	-0.005638	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-4.09	-0.004949	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-1.83	-0.002188	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-2.98	-0.003562	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-3.51	-0.004196	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	-3.25	-0.003885	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	-2.69	-0.003216	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	-5.08	-0.006001	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	-2.18	-0.002575	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	-2.01	-0.002374	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	-3.02	-0.003568	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	2.05	0.002422	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-4.53	-0.005481	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-4.41	-0.005336	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-5.95	-0.007199	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-3.53	-0.004271	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-4.67	-0.005650	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	2.72	0.003252	±2.5	PASS

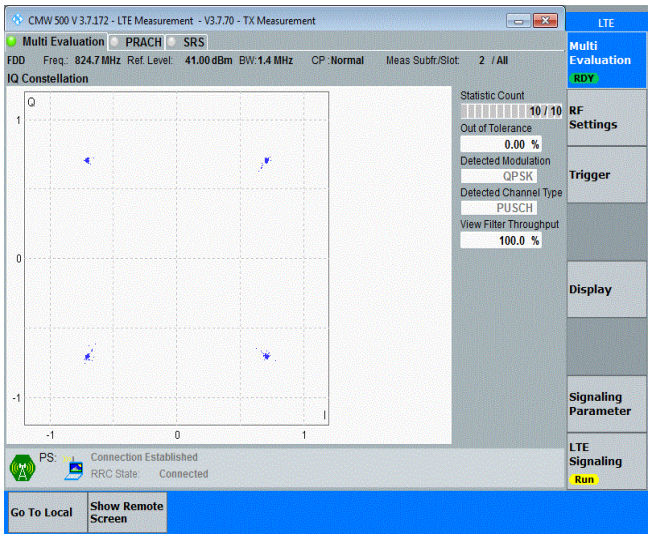
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	1.73	0.002068	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-2.81	-0.003359	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-2.59	-0.003096	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-2.47	-0.002953	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-2.63	-0.003107	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	-3.55	-0.004194	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	-2.99	-0.003532	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	2.18	0.002575	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	-1.14	-0.001347	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	1.73	0.002087	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	1.67	0.002014	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-2.12	-0.002557	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.64	0.001978	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-1.78	-0.002147	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-2.08	-0.002487	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-2.79	-0.003335	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.44	-0.004112	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-3.18	-0.003802	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	3.39	0.004017	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-2.11	-0.002500	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-2.89	-0.003424	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-2.05	-0.002429	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.88	-0.002227	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	1.17	0.001411	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	1.81	0.002183	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	2.33	0.002811	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	1.66	0.002002	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	1.83	0.002207	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-3.21	-0.003837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	1.97	0.002355	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-3.05	-0.003646	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-1.53	-0.001829	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-4.54	-0.005427	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-3.20	-0.003791	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-3.28	-0.003886	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-2.35	-0.002784	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-3.63	-0.004301	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-1.33	-0.001576	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	PASS	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	PASS	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	PASS	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	PASS	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	PASS	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	PASS	PASS
Band5	3MHz	QPSK	20415	15RB#0	PASS	PASS
Band5	3MHz	QPSK	20525	15RB#0	PASS	PASS
Band5	3MHz	QPSK	20635	15RB#0	PASS	PASS
Band5	3MHz	16QAM	20415	15RB#0	PASS	PASS
Band5	3MHz	16QAM	20525	15RB#0	PASS	PASS
Band5	3MHz	16QAM	20635	15RB#0	PASS	PASS
Band5	5MHz	QPSK	20425	25RB#0	PASS	PASS
Band5	5MHz	QPSK	20525	25RB#0	PASS	PASS
Band5	5MHz	QPSK	20625	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20425	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20625	25RB#0	PASS	PASS
Band5	10MHz	QPSK	20450	50RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	QPSK	20600	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20450	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20600	50RB#0	PASS	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0


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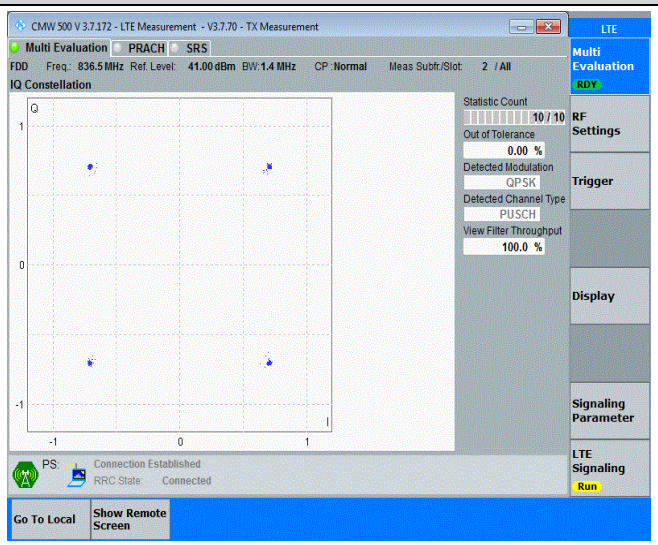
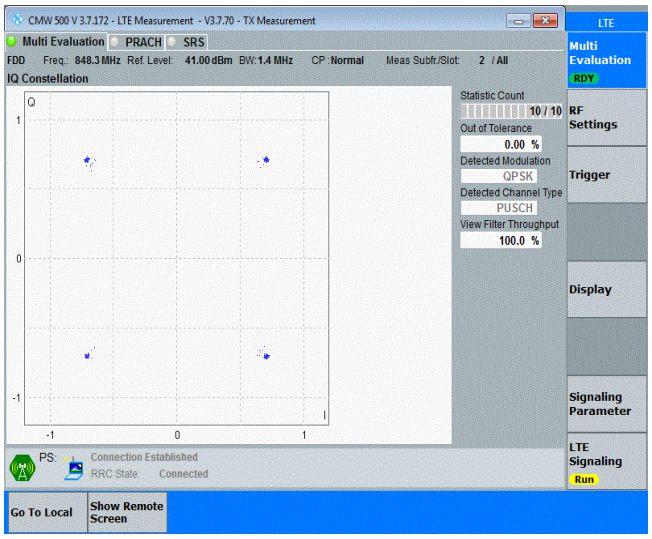
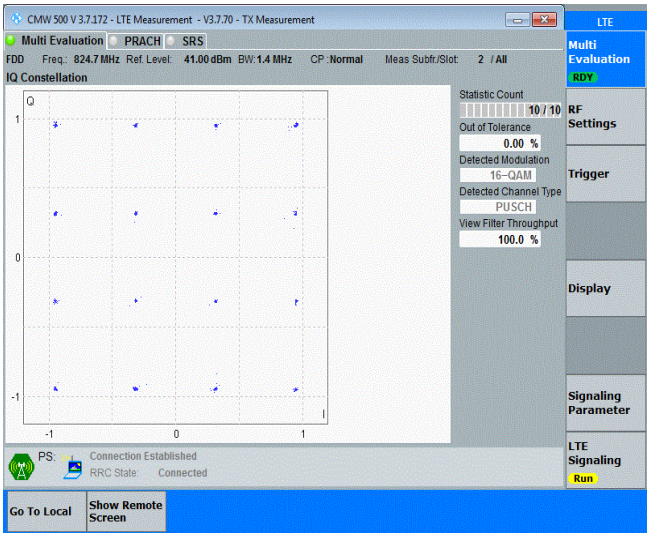
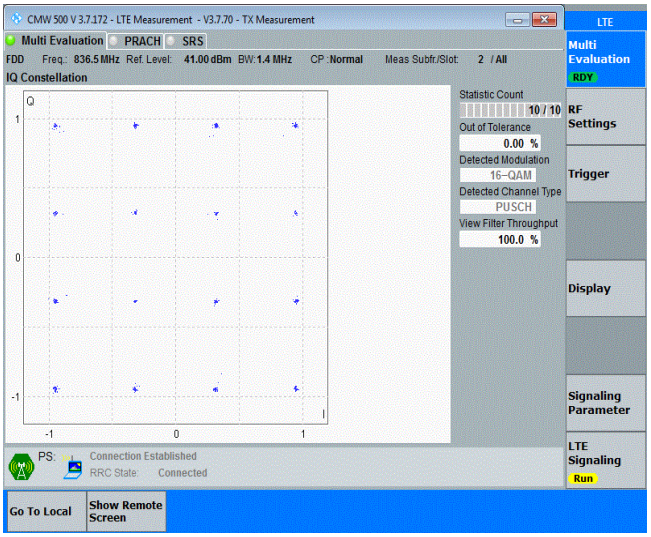


Band5-1.4MHz-QPSK-20643-6RB#0


Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20525-6RB#0



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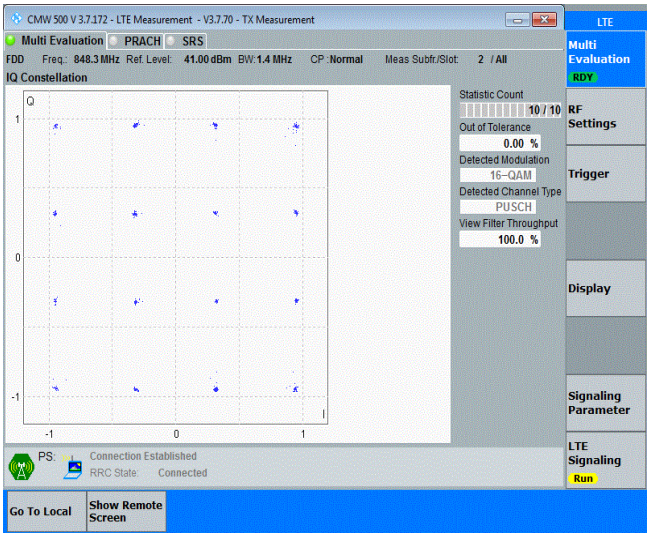

Band5-3MHz-QPSK-20415-15RB#0