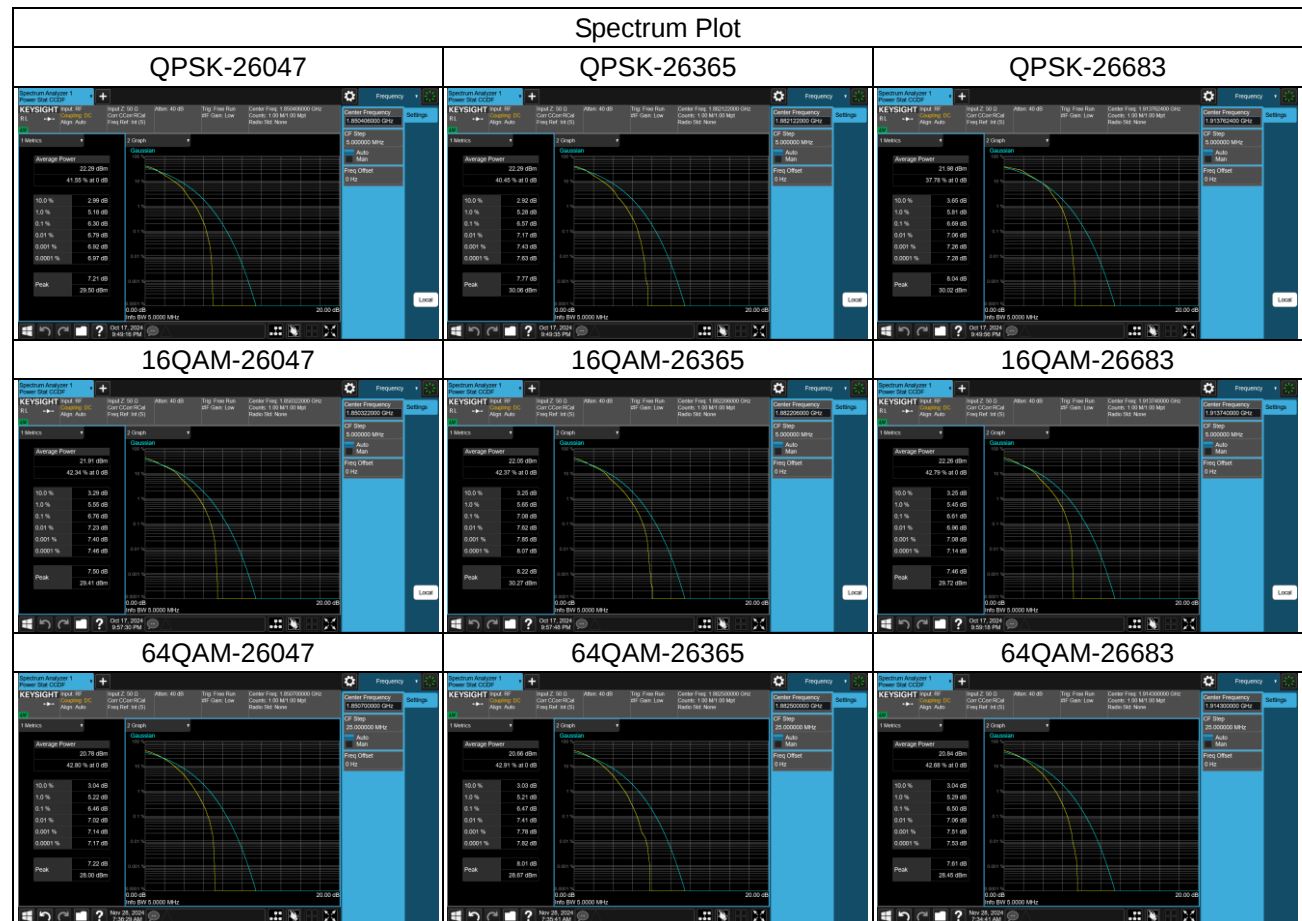
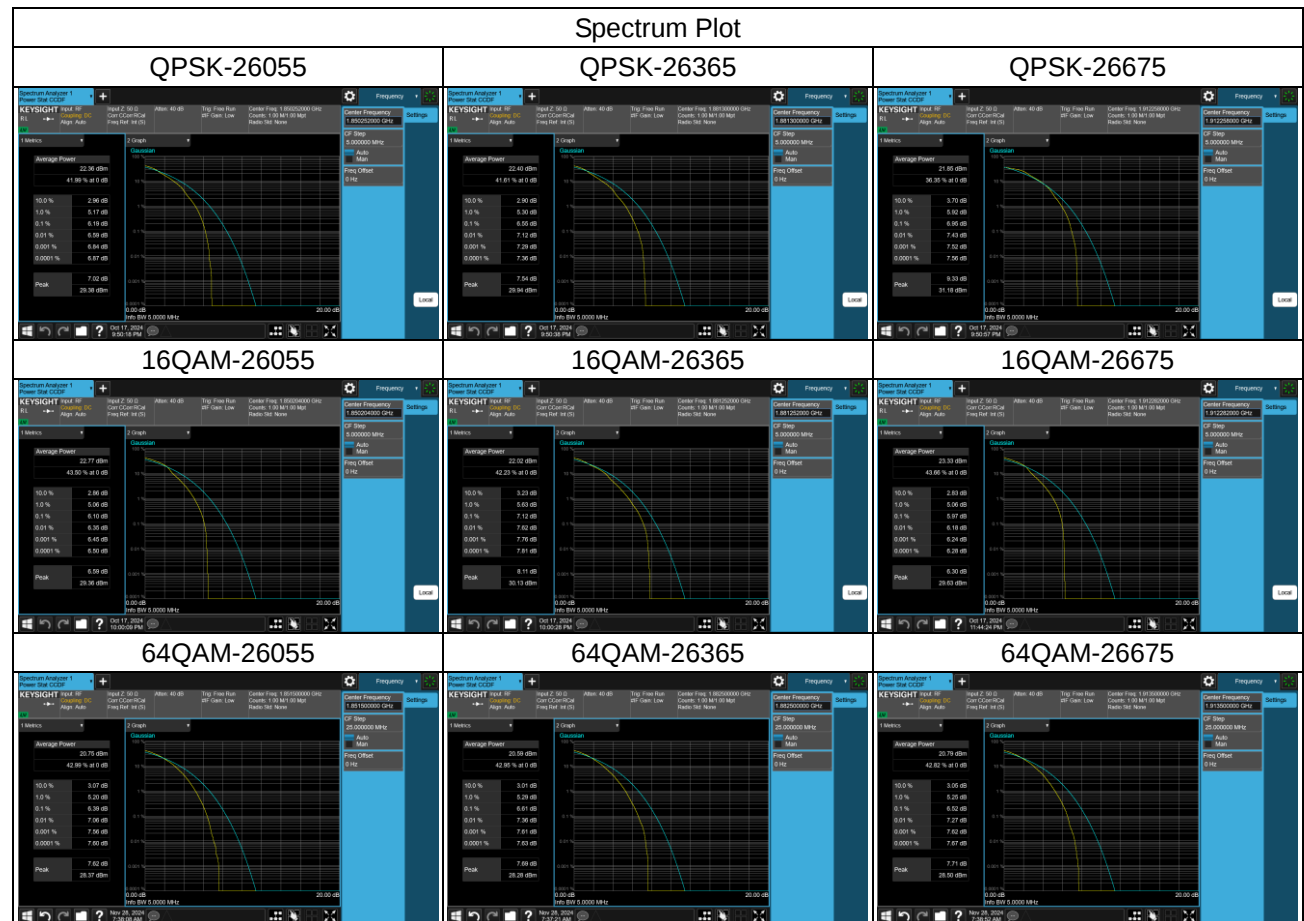


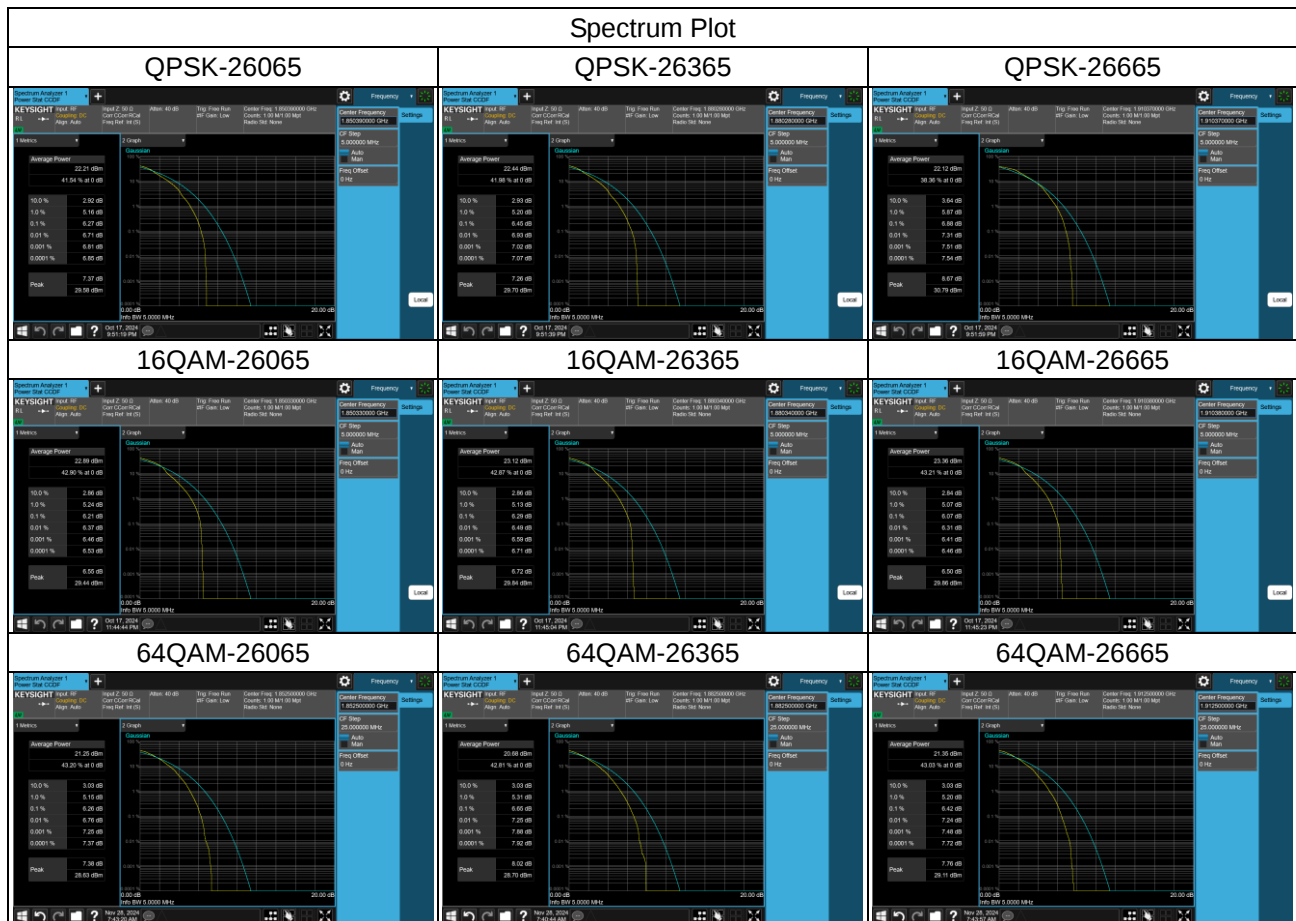
LTE Band 25_1.4MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
26047	1850.7	6.30	6.76	6.46	13	Pass
26365	1882.5	6.57	7.08	6.47	13	Pass
26683	1914.3	6.69	6.61	6.50	13	Pass



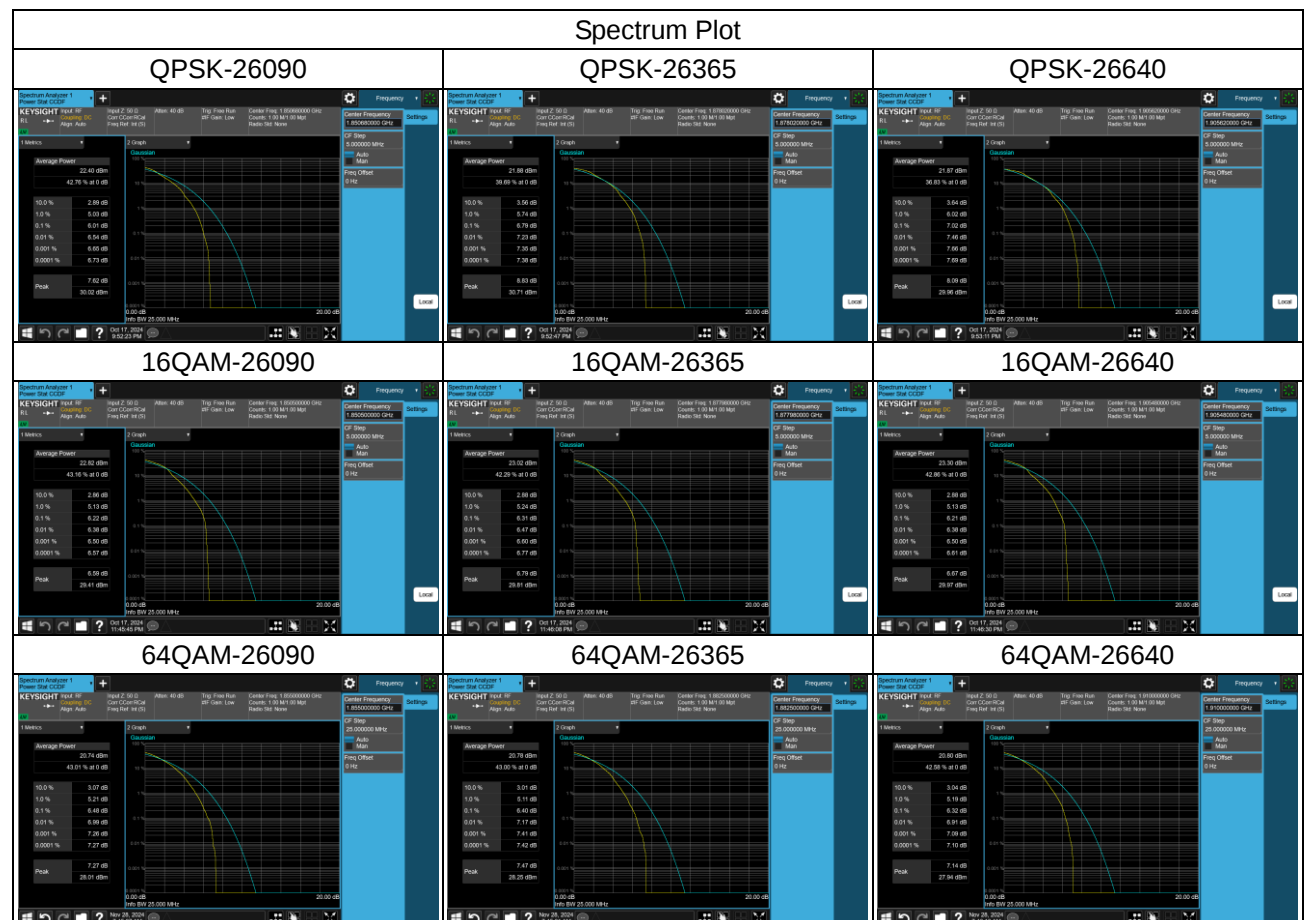
LTE Band 25_3MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
26055	1851.5	6.19	6.10	6.39	13	Pass
26365	1882.5	6.55	7.12	6.61	13	Pass
26675	1913.5	6.95	5.97	6.52	13	Pass



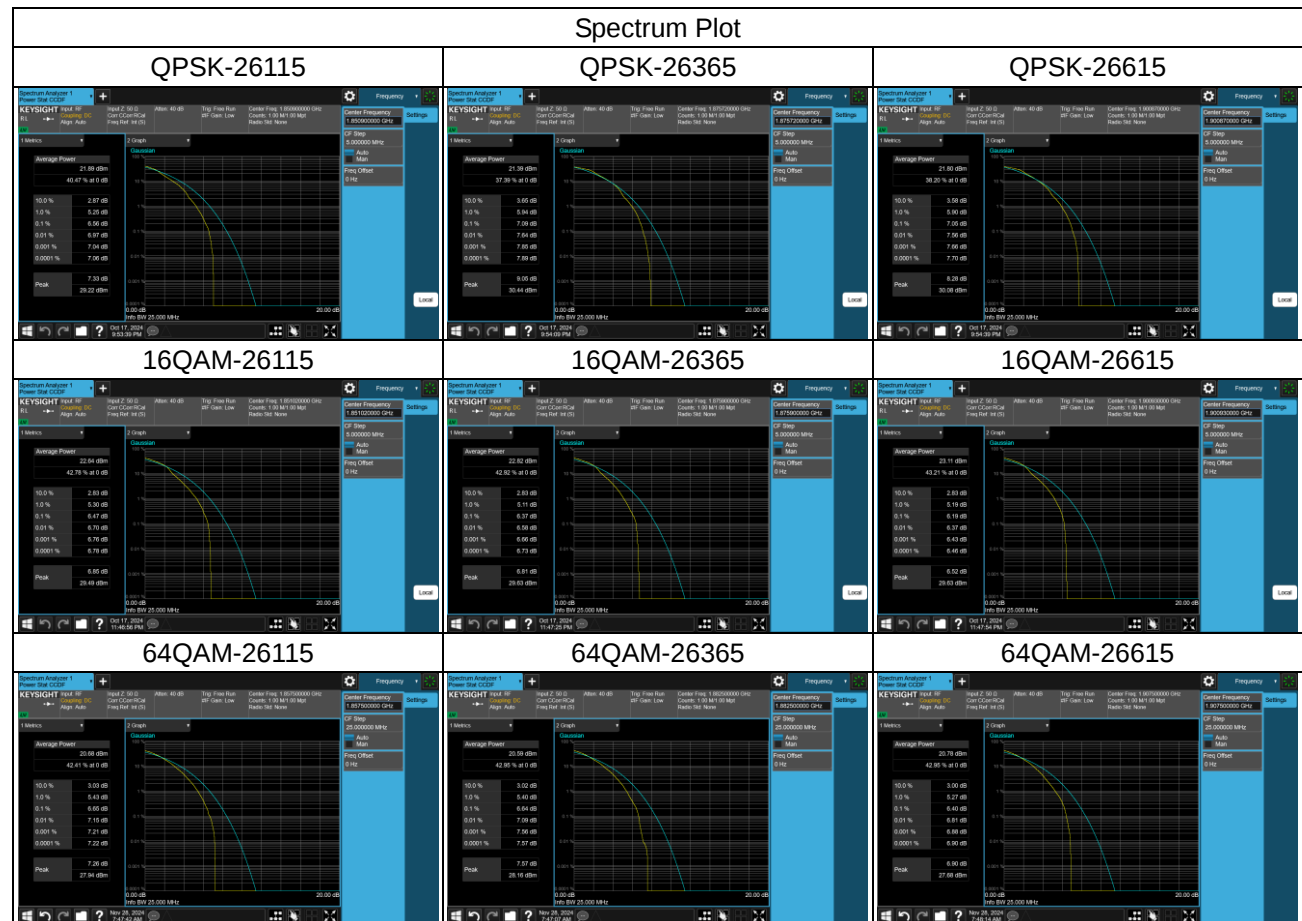
LTE Band 25_5MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
26065	1852.5	6.27	6.21	6.26	13	Pass
26365	1882.5	6.45	6.29	6.65	13	Pass
26665	1912.5	6.88	6.07	6.42	13	Pass



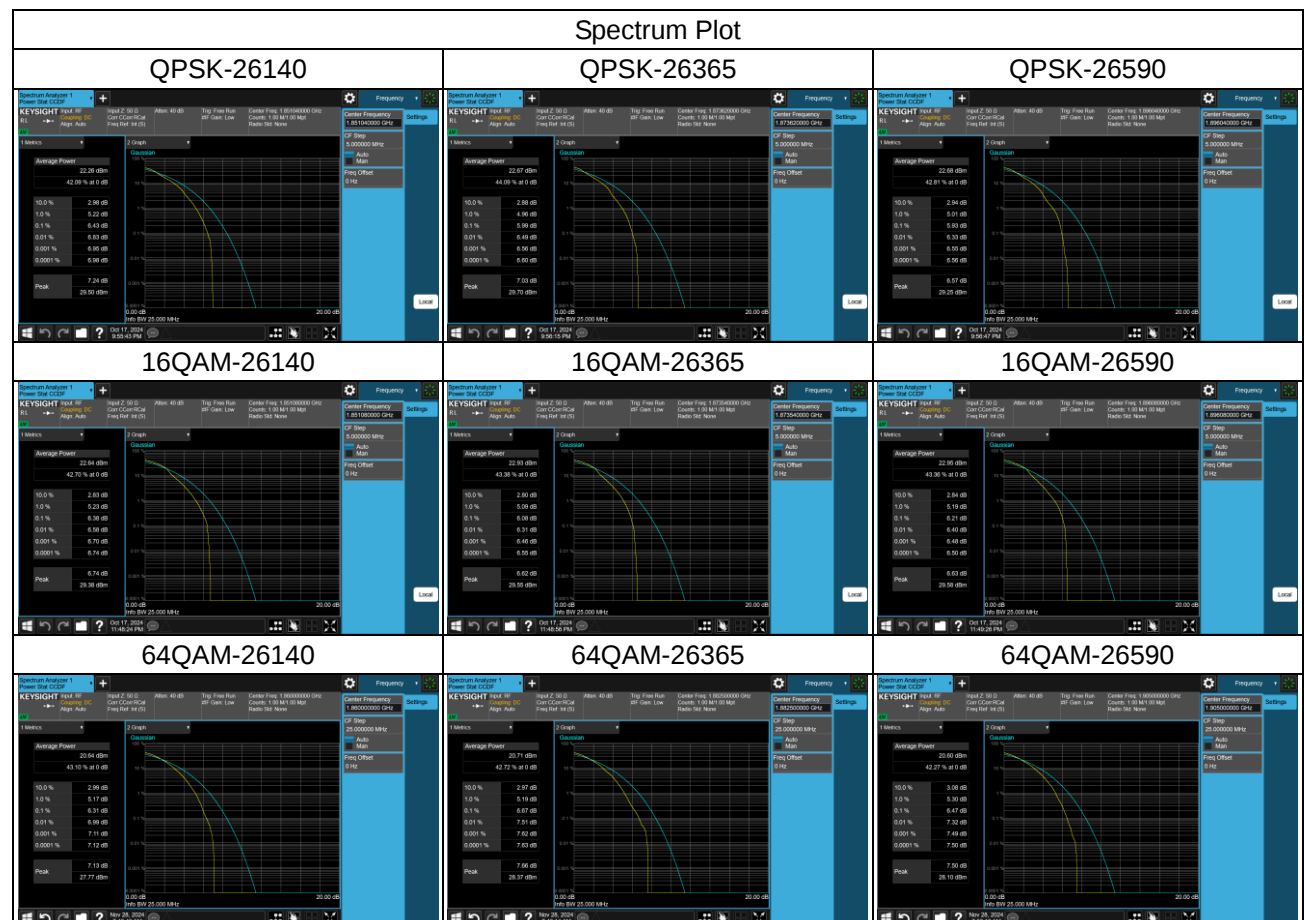
LTE Band 25_10MHz							
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)		Result
		QPSK	16QAM	64QAM			
26090	1855	6.01	6.22	6.48	13		Pass
26365	1882.5	6.79	6.31	6.40	13		Pass
26640	1910	7.02	6.21	6.32	13		Pass



LTE Band 25_15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
26115	1857.5	6.56	6.47	6.65	13	Pass
26365	1882.5	7.09	6.37	6.64	13	Pass
26615	1907.5	7.05	6.19	6.40	13	Pass

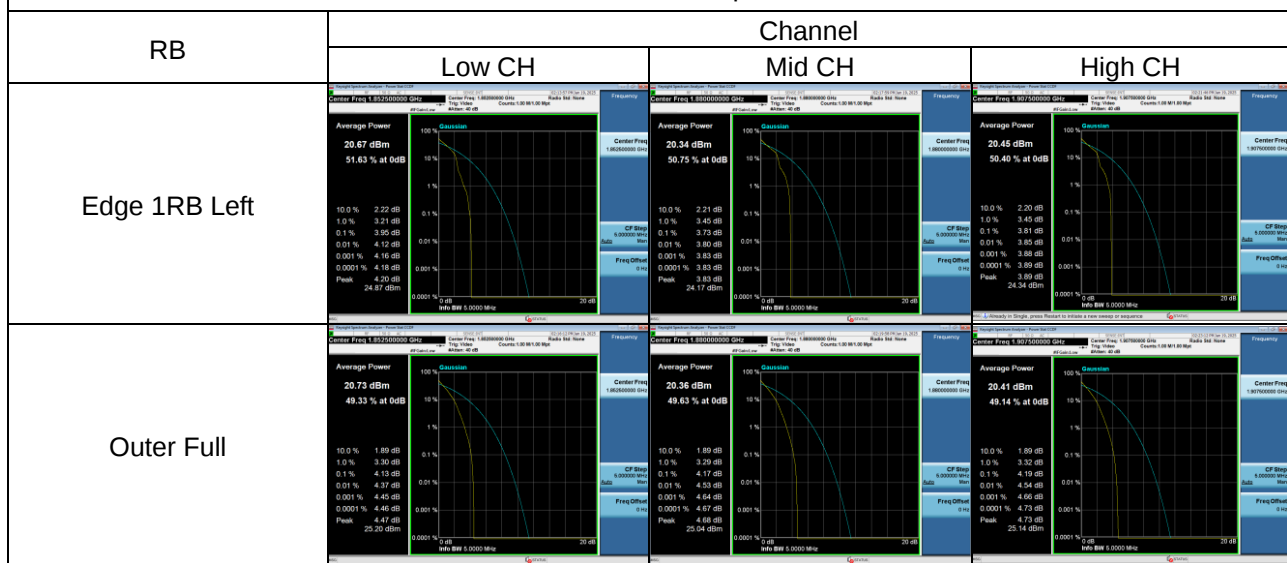


LTE Band 25_20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
26140	1860	6.43	6.38	6.31	13	Pass
26365	1882.5	5.99	6.08	6.67	13	Pass
26590	1905	5.93	6.21	6.47	13	Pass

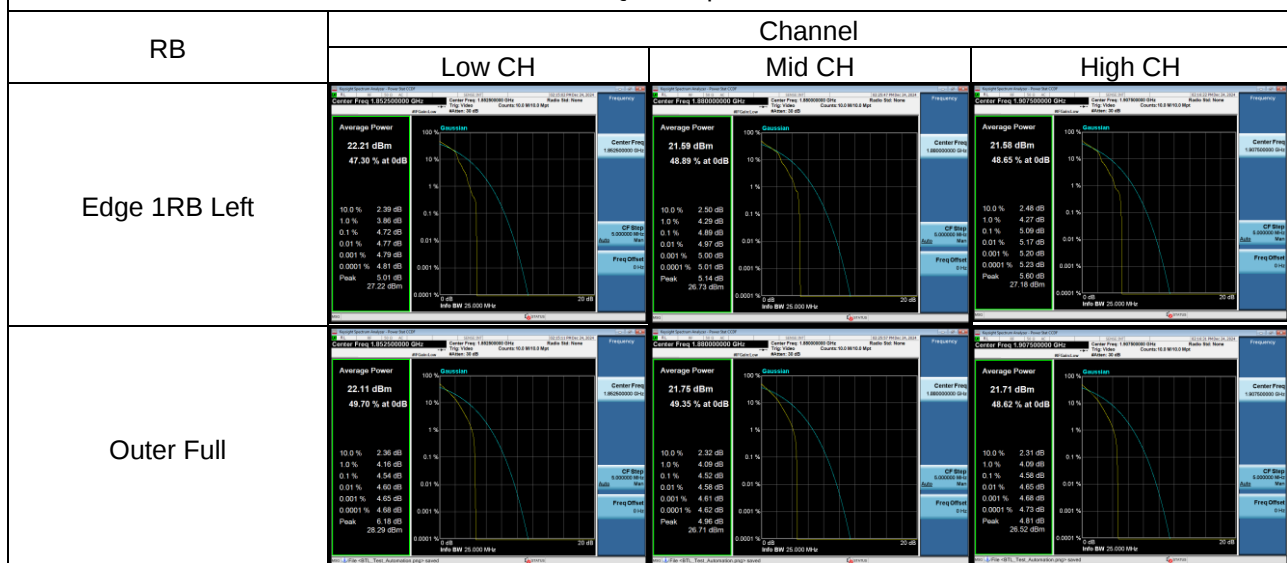


NR n2_5MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	3.95	4.13	4.72	4.54	13	Pass
Mid CH	3.73	4.17	4.89	4.52	13	Pass
High CH	3.81	4.19	5.09	4.58	13	Pass

DFT-s-OFDM PI/2 BPSK Spectrum Plot

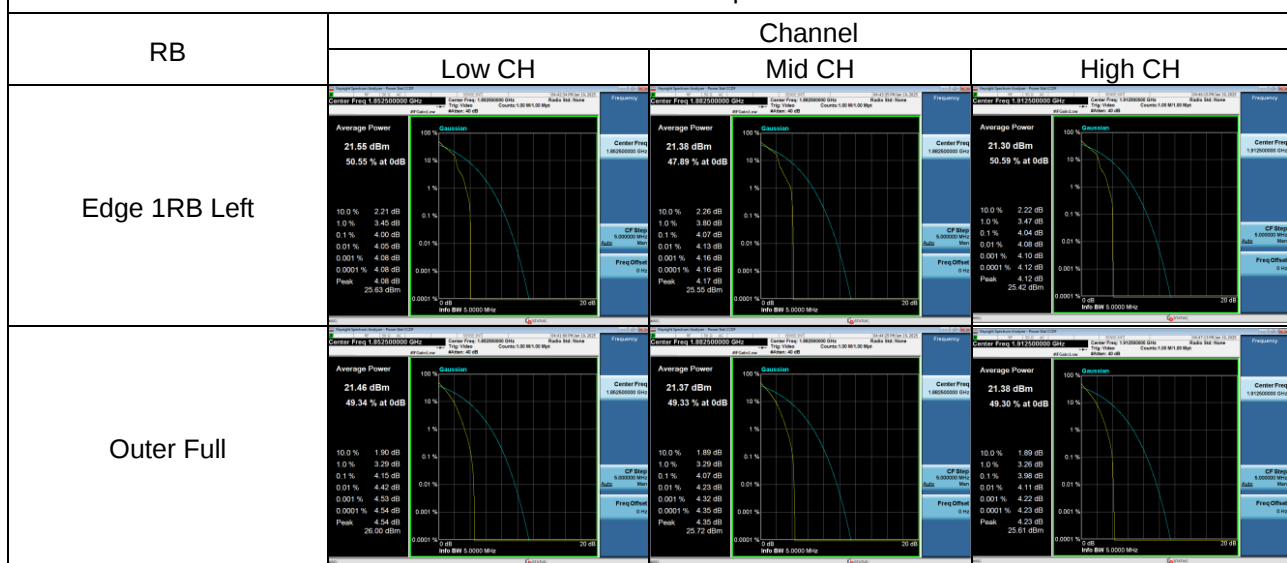


DFT-s-OFDM QPSK Spectrum Plot

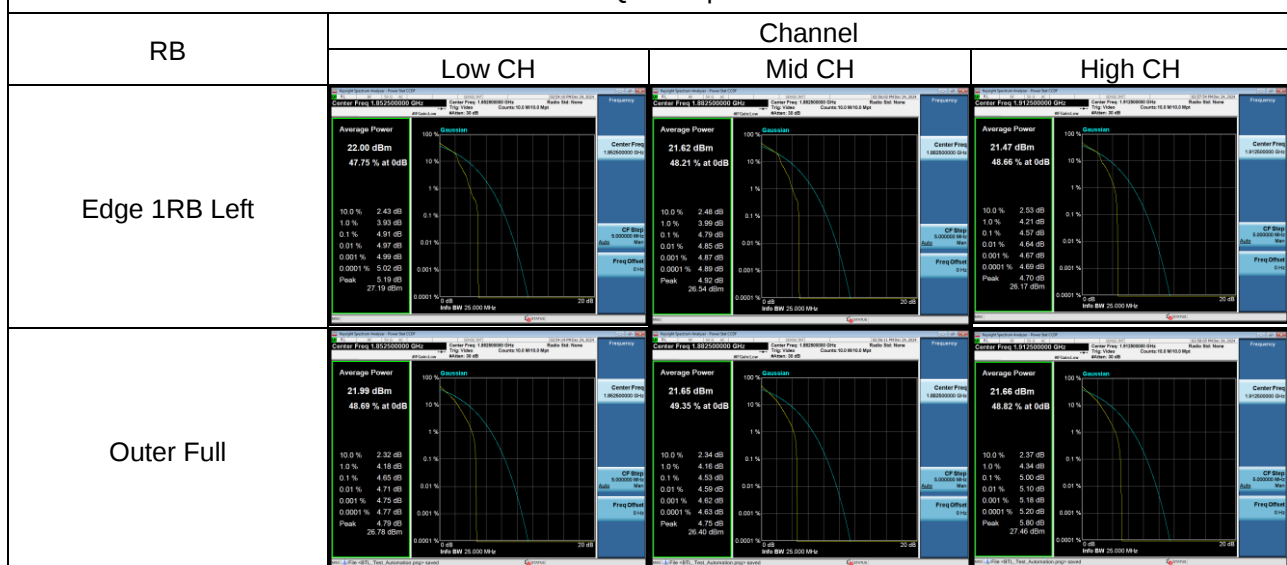


NR n25_5MHz						
Channel	Peak To Average Ratio (dB)				Max. Limit (dB)	Result
	DFT-s-OFDM PI/2 BPSK		DFT-s-OFDM QPSK			
	Edge 1RB Left	Outer Full	Edge 1RB Left	Outer Full		
Low CH	4.00	4.15	4.91	4.65	13	Pass
Mid CH	4.07	4.07	4.79	4.53	13	Pass
High CH	4.04	3.98	4.57	5.00	13	Pass

DFT-s-OFDM PI/2 BPSK Spectrum Plot



DFT-s-OFDM QPSK Spectrum Plot



APPENDIX I - FREQUENCY STABILITY

Test Mode	PCS 1900
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Frequency error versus temperature and supply voltage

Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1910MHz		Record only
50	-0.00004446	-0.00004356	1850.560 000	1909.320 000	1850.560044	1909.319956	Pass	-0.0240
40	-0.0000485	-0.00004425			1850.560049	1909.319956	Pass	-0.0262
30	-0.00004934	-0.00004432			1850.560049	1909.319956	Pass	-0.0267
20	-0.00004352	-0.00004345			1850.560044	1909.319957	Pass	-0.0235
10	-0.00004536	-0.00004362			1850.560045	1909.319956	Pass	-0.0245
0	-0.00004843	-0.00003437			1850.560048	1909.319966	Pass	-0.0262
-10	-0.00002635	-0.00003434			1850.560026	1909.319966	Pass	-0.0180
-20	-0.00003525	-0.00004437			1850.560035	1909.319956	Pass	-0.0232
-30	-0.00004435	-0.00003725			1850.560044	1909.319963	Pass	-0.0240
Minimum voltage	-0.00004538	-0.00003534			1850.560045	1909.319965	Pass	-0.0245
Maximum voltage	-0.00004325	-0.00002538			1850.560043	1909.319975	Pass	-0.0234
Nominal voltage	-0.00003422	-0.00003455			1850.560034	1909.319965	Pass	-0.0185

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	WCDMA Band II
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1910MHz		Record only
50	0.00000823	0.00001535	1850.760 000	1909.740 000	1850.759992	1909.740015	Pass	0.0080
40	0.00000635	0.00001524			1850.759994	1909.740015	Pass	0.0080
30	0.00001546	0.00002623			1850.759985	1909.740026	Pass	0.0138
20	0.00001325	0.00002342			1850.759987	1909.740023	Pass	0.0123
10	0.00001616	0.00001639			1850.759984	1909.740016	Pass	0.0087
0	0.00001543	0.00002564			1850.759985	1909.740026	Pass	0.0134
-10	0.00001763	0.00002324			1850.759982	1909.740023	Pass	0.0122
-20	0.00001823	0.00002123			1850.759982	1909.740021	Pass	0.0111
-30	0.00001245	0.00002786			1850.759988	1909.740028	Pass	0.0146
Minimum voltage	0.00001552	0.00001751			1850.759984	1909.740018	Pass	0.0092
Maximum voltage	0.00001315	0.00002538			1850.759987	1909.740025	Pass	0.0133
Nominal voltage	0.00001051	0.00001384			1850.759989	1909.740014	Pass	0.0073

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	LTE Band 2
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1910MHz		Record only
50	0.00002323	0.00001708	1850.650000	1909.420000	1850.649977	1909.420017	Pass	0.0125
40	0.00001707	0.00001718			1850.649983	1909.420017	Pass	0.0092
30	0.00001356	0.00001655			1850.649986	1909.420017	Pass	0.0087
20	0.00000247	0.00000188			1850.649998	1909.420002	Pass	0.0013
10	0.00001551	0.00001228			1850.649984	1909.420012	Pass	0.0083
0	0.00001628	0.00001884			1850.649984	1909.420019	Pass	0.0099
-10	0.0002168	0.00001927			1850.649783	1909.420019	Pass	0.1166
-20	0.00001755	0.00001501			1850.649982	1909.420015	Pass	0.0094
-30	0.00002321	0.00001544			1850.649977	1909.420015	Pass	0.0125
Minimum voltage	0.00001845	0.00002257			1850.649982	1909.420023	Pass	0.0119
Maximum voltage	0.00001881	0.00001864			1850.649981	1909.420019	Pass	0.0101
Nominal voltage	0.00002146	0.00001614			1850.649979	1909.420016	Pass	0.0115

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	LTE Band 25
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1915MHz		Record only
50	0.00000561	-0.00000728	1850.3500	1914.4300	1850.349994	1914.429993	Pass	-0.0038
40	0.0000126	0.00000376			1850.349987	1914.430004	Pass	0.0068
30	0.00001635	0.0000353			1850.349984	1914.430035	Pass	0.0185
20	-0.00001647	-0.00001242			1850.350016	1914.429988	Pass	-0.0089
10	0.00000469	0.00000265			1850.349995	1914.430003	Pass	0.0025
0	0.00000847	-0.00001266			1850.349992	1914.429987	Pass	-0.0066
-10	0.00001472	0.00000279			1850.349985	1914.430003	Pass	0.0079
-20	-0.0000118	-0.00000192			1850.350012	1914.429998	Pass	-0.0063
-30	0.00001468	0.00000254			1850.349985	1914.430003	Pass	0.0079
Minimum voltage	-0.00001221	0.00000548			1850.350012	1914.430005	Pass	-0.0066
Maximum voltage	-0.00000565	0.0000032			1850.350006	1914.430003	Pass	-0.0030
Nominal voltage	0.00000343	0.00000535			1850.349997	1914.430005	Pass	0.0028

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n2
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1910MHz		Record only
50	0.00002265	0.00001686	1850.720000	1909.380000	1850.719977	1909.380017	Pass	0.0122
40	0.00001803	0.00001832			1850.719982	1909.380018	Pass	0.0097
30	0.00001432	0.00001702			1850.719986	1909.380017	Pass	0.0090
20	0.00000325	0.00000236			1850.719997	1909.380002	Pass	0.0017
10	0.00001625	0.00001335			1850.719984	1909.380013	Pass	0.0087
0	0.00001569	0.00001963			1850.719984	1909.380020	Pass	0.0103
-10	0.00002168	0.00001845			1850.719978	1909.380018	Pass	0.0117
-20	0.0000386	0.00001621			1850.719961	1909.380016	Pass	0.0208
-30	0.00002512	0.00001498			1850.719975	1909.380015	Pass	0.0135
Minimum voltage	0.00001963	0.00002332			1850.719980	1909.380023	Pass	0.0123
Maximum voltage	0.00001935	0.00001942			1850.719981	1909.380019	Pass	0.0104
Nominal voltage	0.00002232	0.00001723			1850.719978	1909.380017	Pass	0.0120

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

Test Mode	5G NR n25
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1915MHz		Record only
50	0.00000632	-0.00000663	1850.6500	1914.1300	1850.649994	1914.129993	Pass	-0.0035
40	0.00001325	0.00000443			1850.649987	1914.130004	Pass	0.0071
30	0.00001565	0.00003025			1850.649984	1914.130030	Pass	0.0159
20	-0.00001542	-0.00001325			1850.650015	1914.129987	Pass	-0.0083
10	0.00000532	0.00000352			1850.649995	1914.130004	Pass	0.0029
0	0.00000768	-0.00001244			1850.649992	1914.129988	Pass	-0.0065
-10	0.00001523	0.00000332			1850.649985	1914.130003	Pass	0.0082
-20	-0.00001223	-0.00000225			1850.650012	1914.129998	Pass	-0.0066
-30	0.00001365	0.00000354			1850.649986	1914.130004	Pass	0.0073
Minimum voltage	-0.00001325	0.00000552			1850.650013	1914.130006	Pass	-0.0071
Maximum voltage	-0.00000635	0.00000332			1850.650006	1914.130003	Pass	-0.0034
Nominal voltage	0.00000425	0.00000554			1850.649996	1914.130006	Pass	0.0029

Note: Nominal voltage= 3.8V, Maximum voltage= 4.2V, Minimum voltage= 3.5V.

End of Test Report