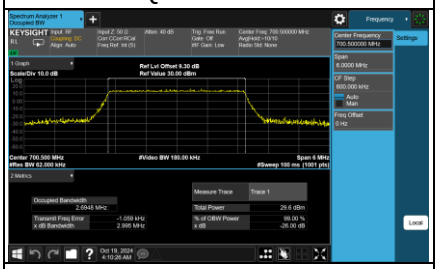
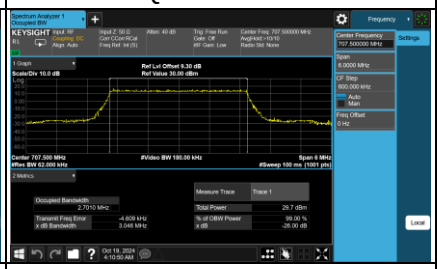
LTE Band 12_3MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
23025	700.5	2.6948	2.7018	2.6925	2.6927	2.995	3.059	2.904	2.919
23095	707.5	2.7010	2.7003	2.6926	2.6917	3.046	3.074	2.918	2.906
23165	714.5	2.7025	2.6960	2.6937	2.6906	3.067	3.012	2.915	2.920

Spectrum Plot

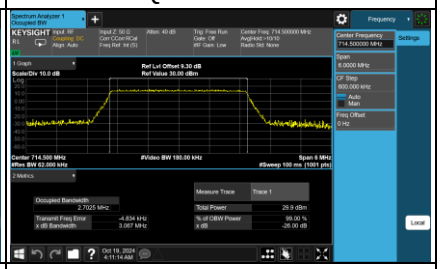
QPSK-23025



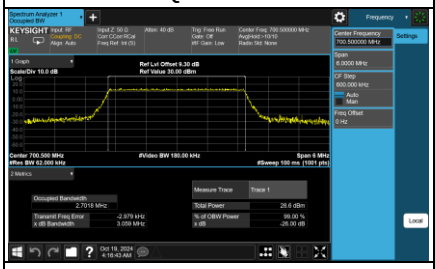
QPSK-23095



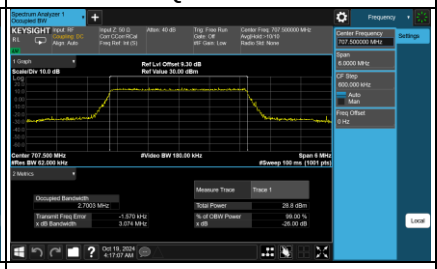
QPSK-23165



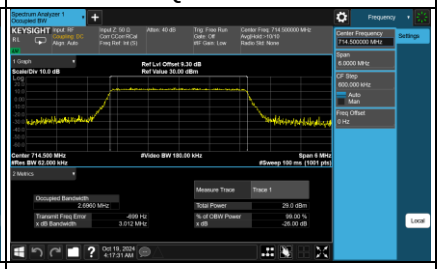
16QAM-23025



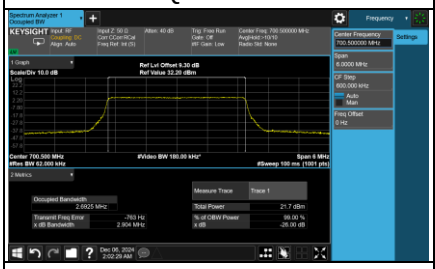
16QAM-23095



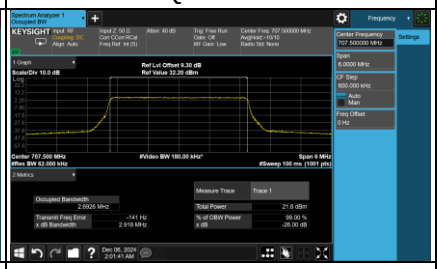
16QAM-23165



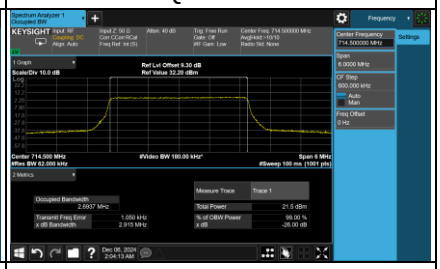
64QAM-23025



64QAM-23095

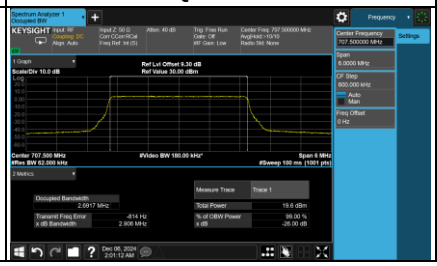


64QAM-23165



256QAM-23025

256QAM-23095

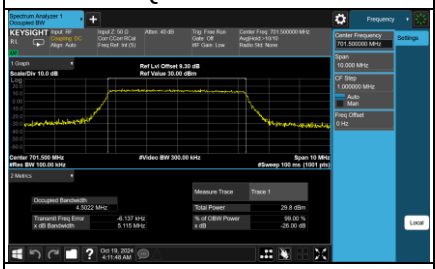


256QAM-23165

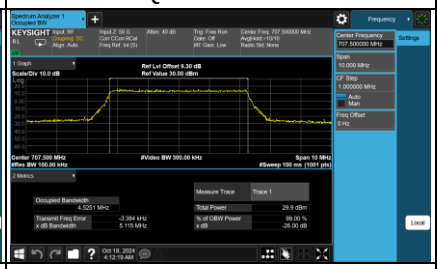
LTE Band 12_5MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
23035	701.5	4.5022	4.4954	4.4834	4.4815	5.115	5.043	4.793	4.809
23095	707.5	4.5251	4.4866	4.4843	4.4829	5.115	4.840	4.814	4.798
23155	713.5	4.4949	4.4867	4.4859	4.4818	5.101	4.842	4.785	4.814

Spectrum Plot

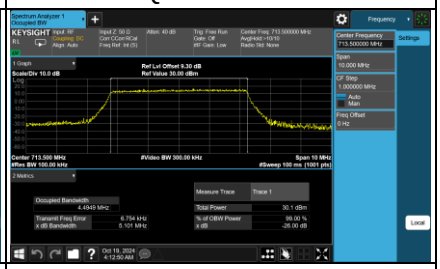
QPSK-23035



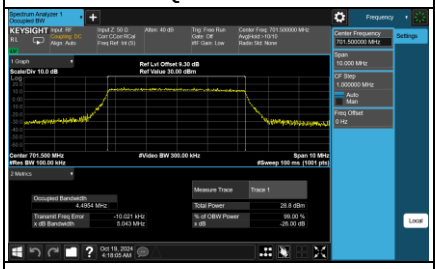
QPSK-23095



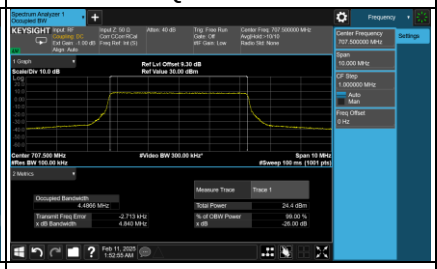
QPSK-23155



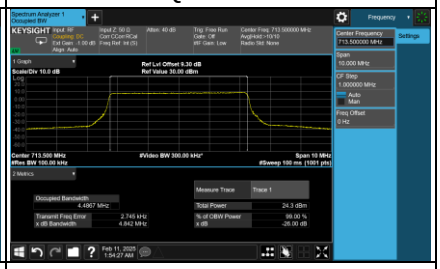
16QAM-23035



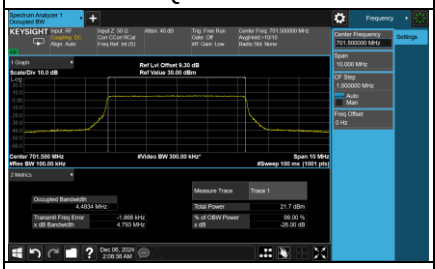
16QAM-23095



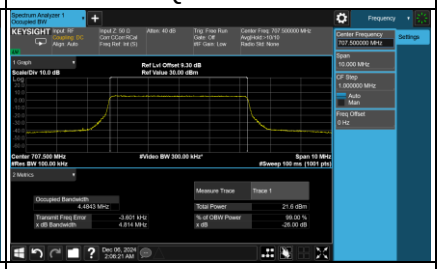
16QAM-23155



64QAM-23035



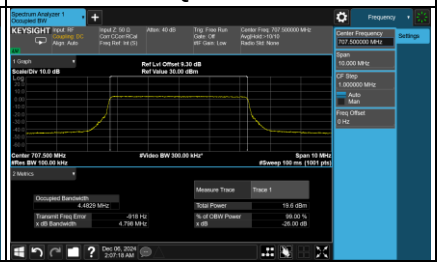
64QAM-23095



64QAM-23155

256QAM-23035

256QAM-23095

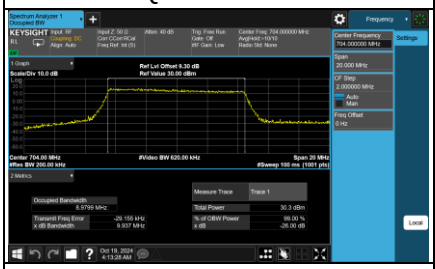


256QAM-23155

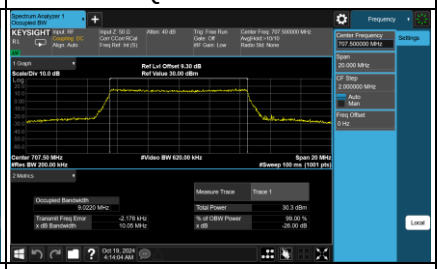
LTE Band 12_10MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
23060	704.0	8.9799	8.9525	8.9565	8.9554	9.937	9.500	9.494	9.498
23095	707.5	9.0220	8.9568	8.9585	8.9616	10.05	9.505	9.502	9.504
23130	711.0	8.9850	8.9769	8.9695	8.9676	9.914	9.516	9.518	9.502

Spectrum Plot

QPSK-23060

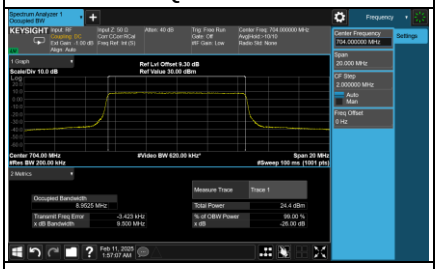


QPSK-23095

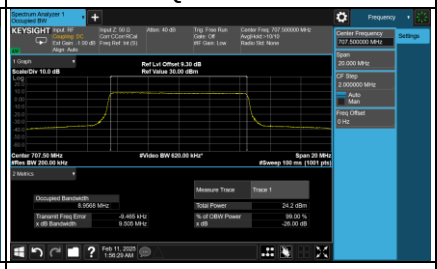


QPSK-23130

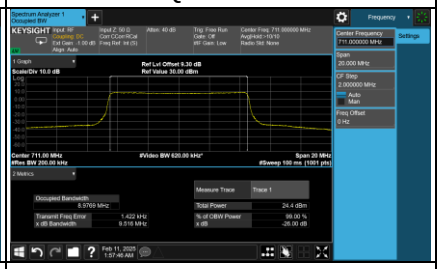
16QAM-23060



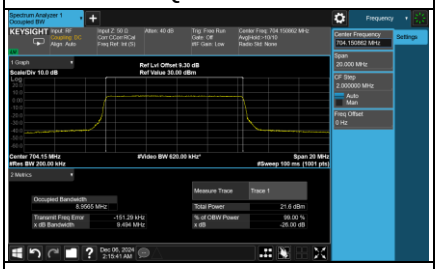
16QAM-23095



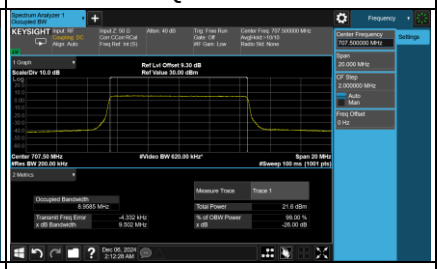
16QAM-23130



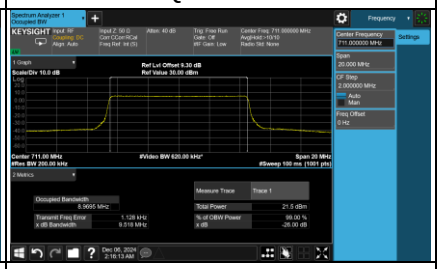
64QAM-23060



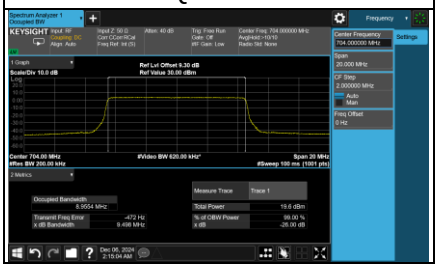
64QAM-23095



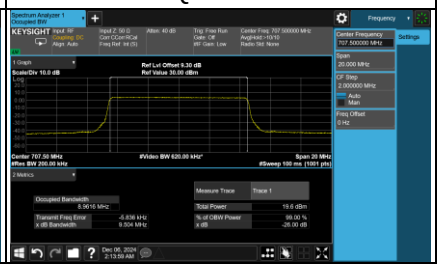
64QAM-23130



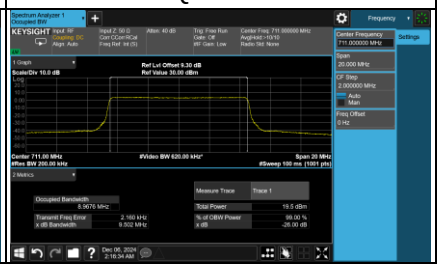
256QAM-23060



256QAM-23095



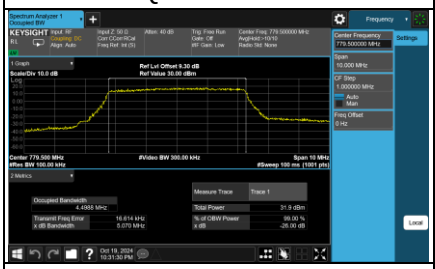
256QAM-23130



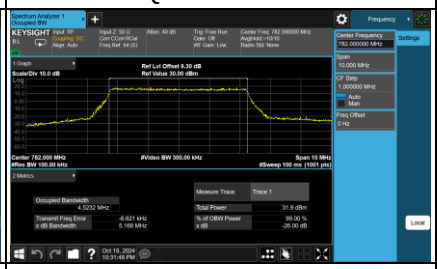
LTE Band 13_5MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
23205	779.5	4.4988	4.4863	4.4795	4.4773	5.070	5.044	4.802	4.812
23230	782.0	4.5232	4.5257	4.4903	4.4869	5.168	5.171	4.799	4.794
23255	784.5	4.5145	4.5204	4.4738	4.4758	5.196	5.199	4.801	4.797

Spectrum Plot

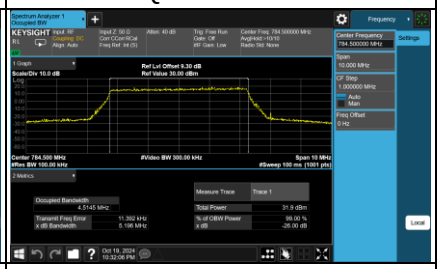
QPSK-23205



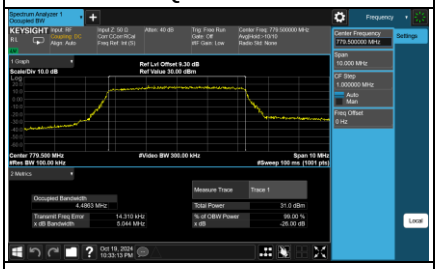
QPSK-23230



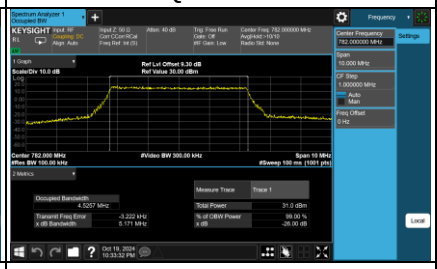
QPSK-23255



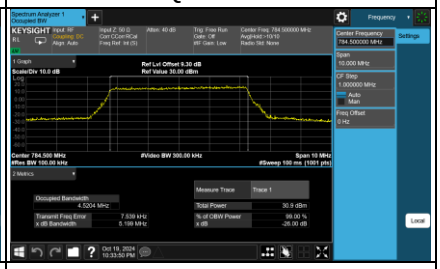
16QAM-23205



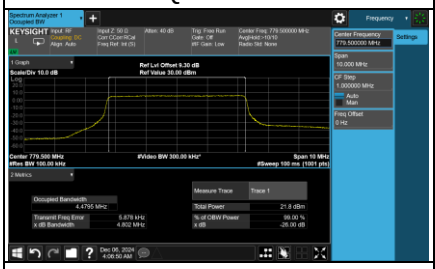
16QAM-23230



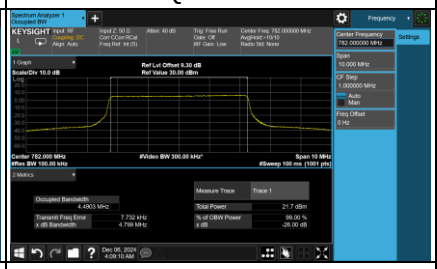
16QAM-23255



64QAM-23205



64QAM-23230



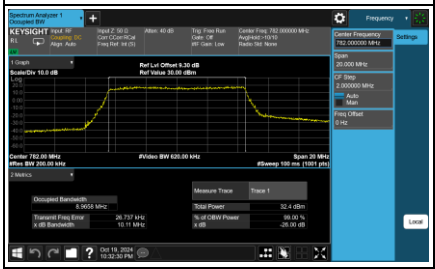
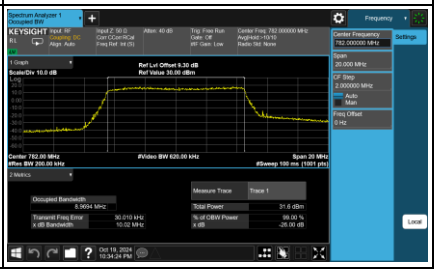
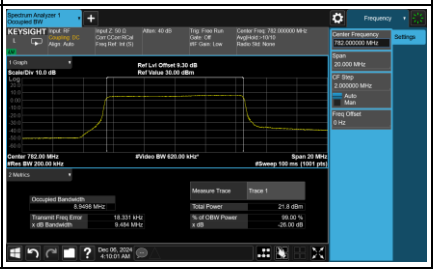
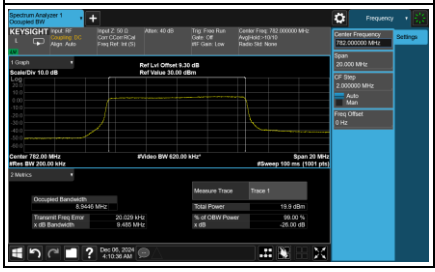
64QAM-23255

256QAM-23205

256QAM-23230

256QAM-23255

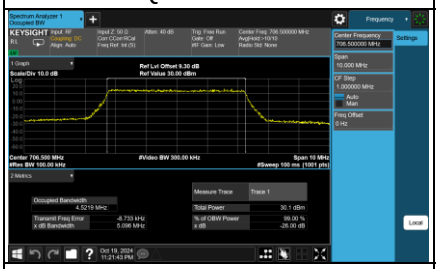
LTE Band 13_10MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
23230	782.0	8.9658	8.9694	8.9498	8.9446	10.11	10.02	9.484	9.485

Spectrum Plot		
QPSK-23230	16QAM-23230	64QAM-23230
		
256QAM-23230	-	-
	-	-

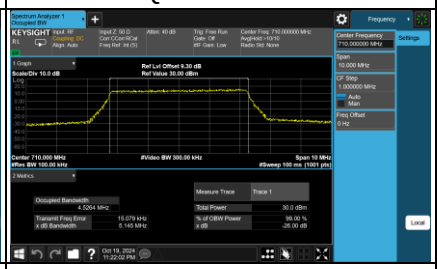
LTE Band 17_5MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
23755	706.5	4.5219	4.5180	4.4830	5.096	5.109	4.811
23790	710	4.5264	4.5150	4.4877	5.145	5.139	4.803
23825	713.5	4.4932	4.5001	4.4880	5.083	5.062	4.826

Spectrum Plot

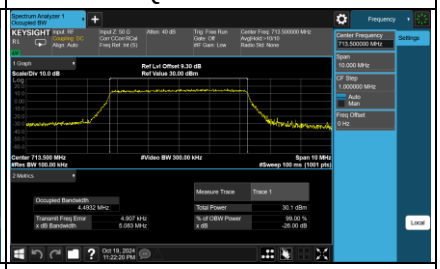
QPSK-23755



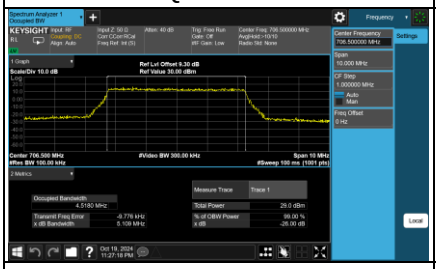
QPSK-23790



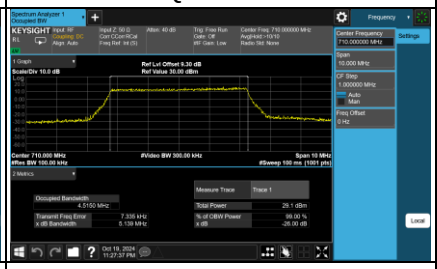
QPSK-23825



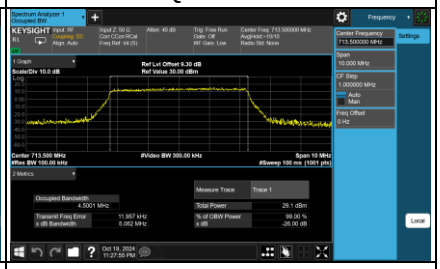
16QAM-23755



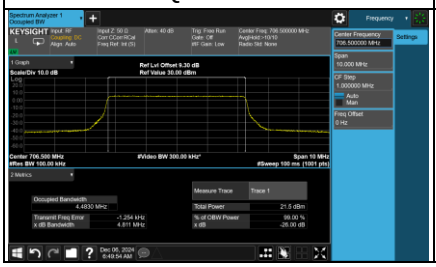
16QAM-23790



16QAM-23825

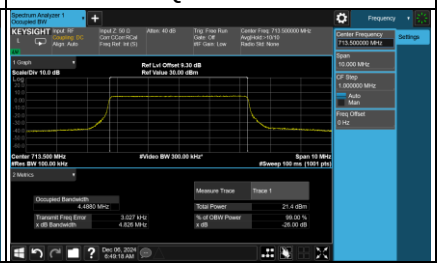


64QAM-23755



64QAM-23790

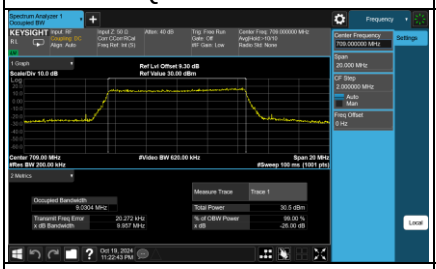
64QAM-23825



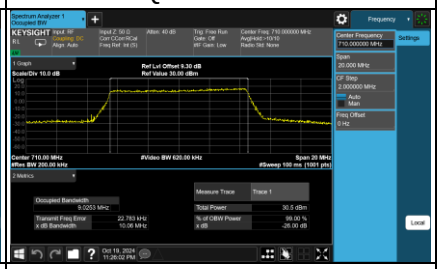
LTE Band 17_10MHz							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			26dB Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
23780	709	9.0304	9.0341	8.9647	9.957	10.14	9.511
23790	710	9.0253	9.0042	8.9671	10.06	9.981	9.513
23800	711	8.9624	8.9889	8.9712	9.923	9.908	9.509

Spectrum Plot

QPSK-23780

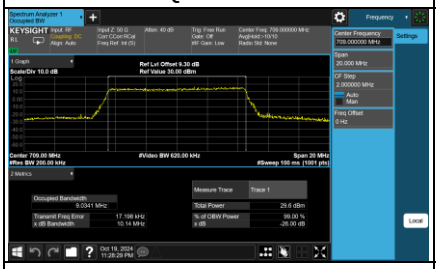


QPSK-23790

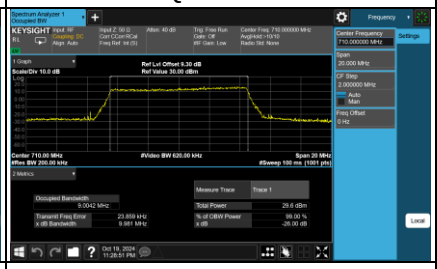


QPSK-23800

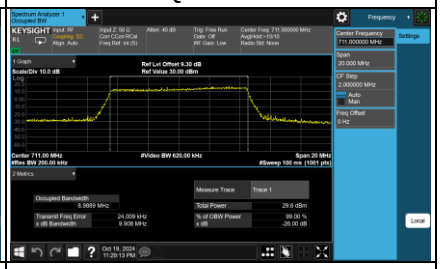
16QAM-23780



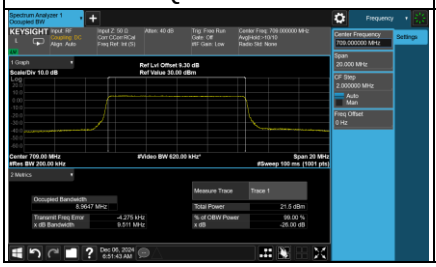
16QAM-23790



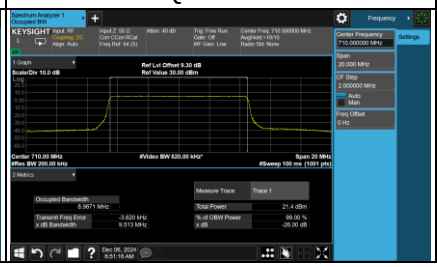
16QAM-23800



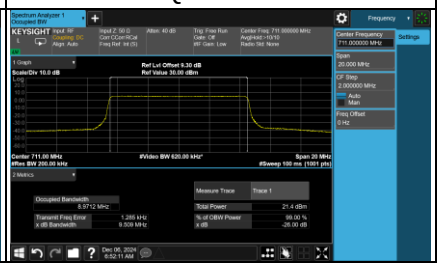
64QAM-23780



64QAM-23790



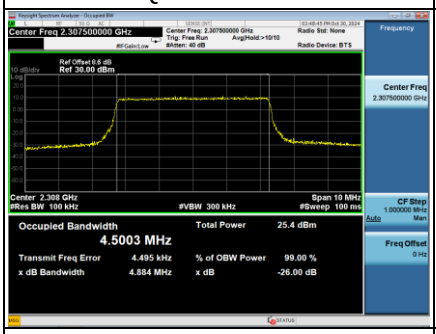
64QAM-23800



LTE Band 30_5MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
27685	2307.5	4.5003	4.5042	4.4886	4.4821	4.884	5.002	4.835	4.800
27710	2310	4.4999	4.5016	4.4837	4.4823	4.916	4.964	4.803	4.798
27735	2312.5	4.4982	4.4979	4.4826	4.4823	4.939	4.959	4.811	4.816

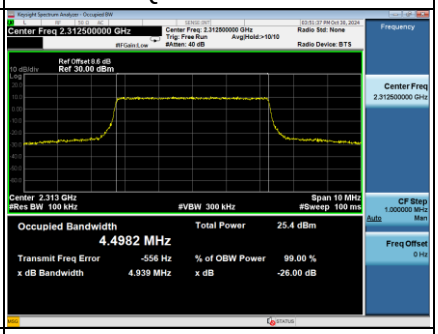
Spectrum Plot

QPSK-27685

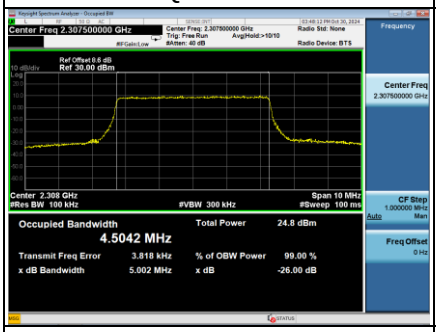


QPSK-27710

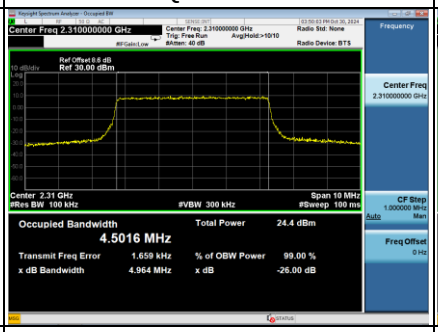
QPSK-27735



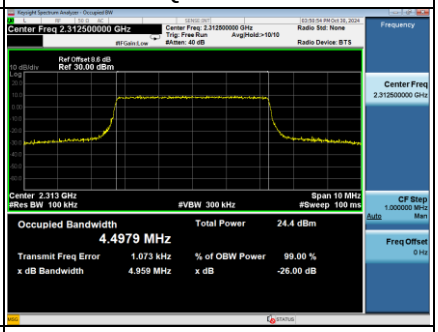
16QAM-27685



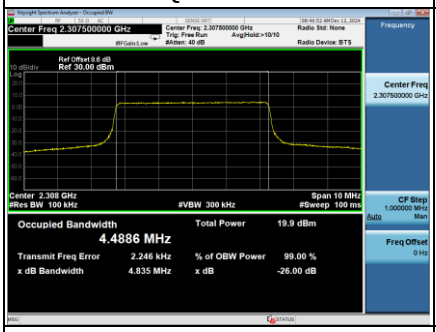
16QAM-27710



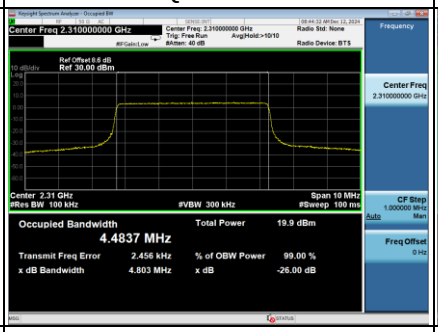
16QAM-27735



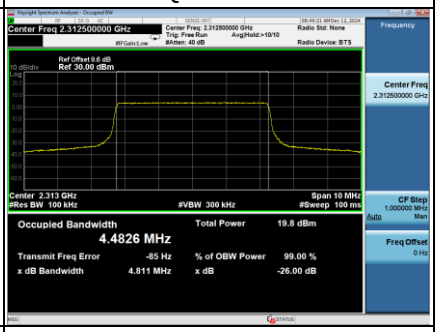
64QAM-27685



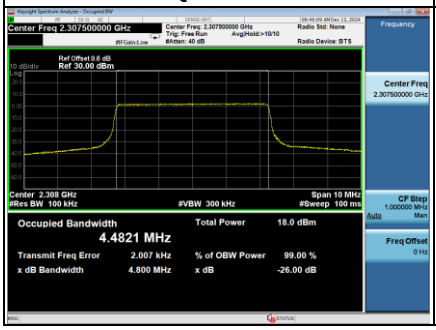
64QAM-27710



64QAM-27735



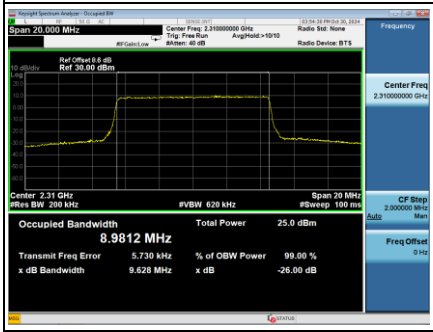
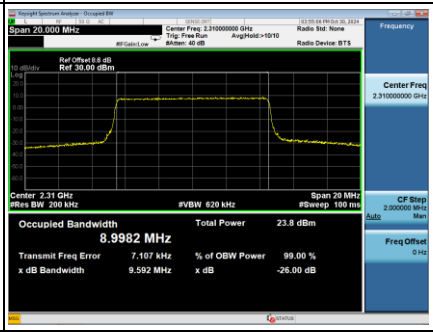
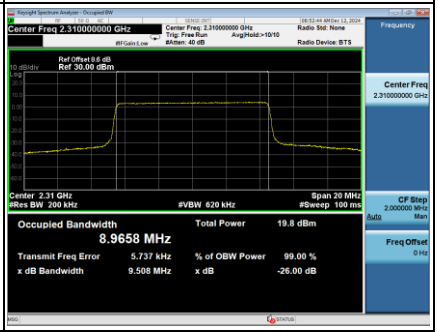
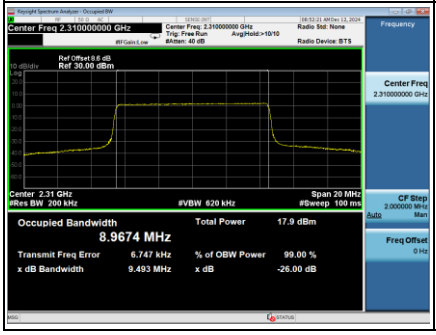
256QAM-27685



256QAM-27710

256QAM-27735

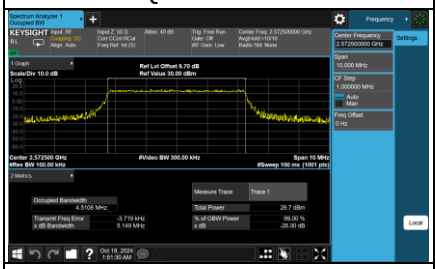
LTE Band 30_10MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
27710	2310	8.9812	8.9982	8.9658	8.9674	9.628	9.592	9.508	9.493

Spectrum Plot		
QPSK-27710	16QAM-27710	64QAM-27710
		
256QAM-27710	-	-
	-	-

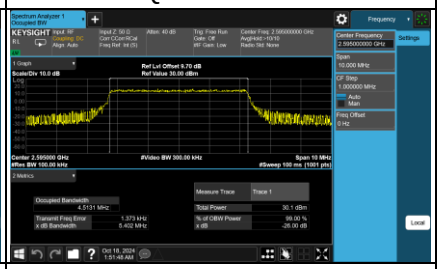
LTE Band 38_5MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
37775	2572.5	4.5108	4.5079	4.4862	4.4794	5.149	5.136	4.798	4.830
38000	2595	4.5131	4.5015	4.4880	4.4868	5.402	5.137	4.770	4.817
38225	2617.5	4.5044	4.5052	4.4858	4.4775	5.201	5.140	4.788	4.800

Spectrum Plot

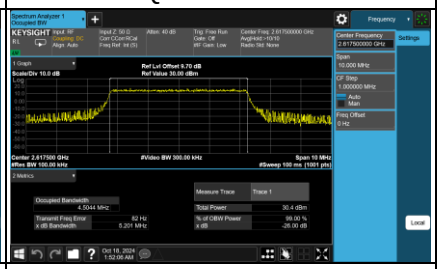
QPSK-37775



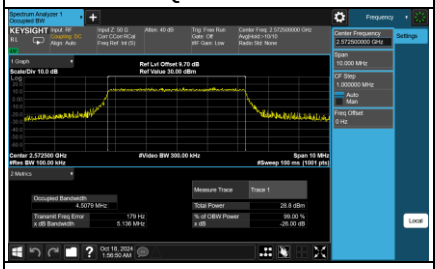
QPSK-38000



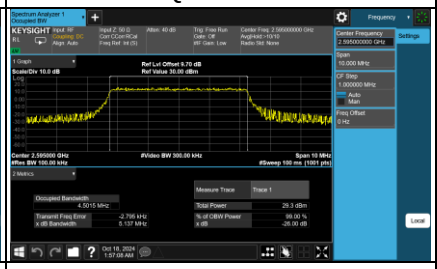
QPSK-38225



16QAM-37775



16QAM-38000



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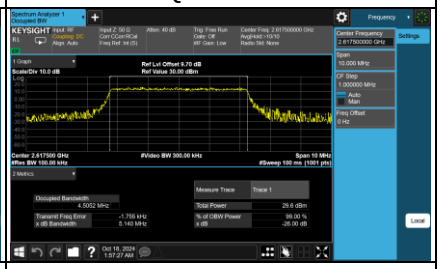
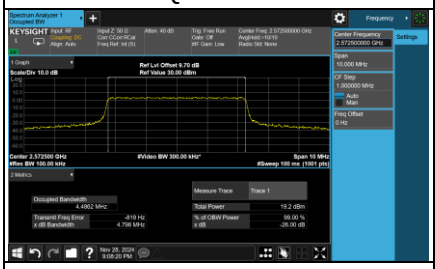
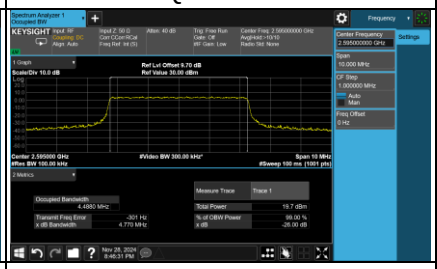


64QAM-37775



64QAM-38000



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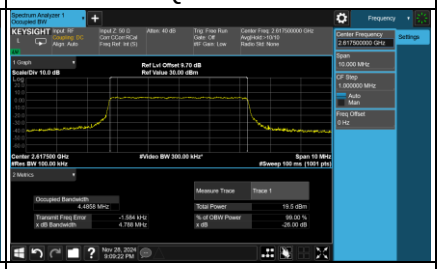
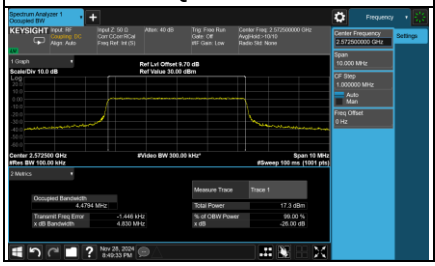
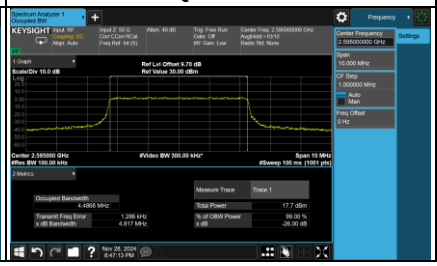


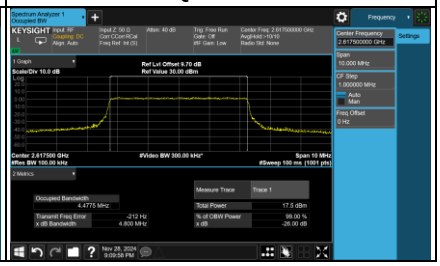
256QAM-37775



256QAM-38000



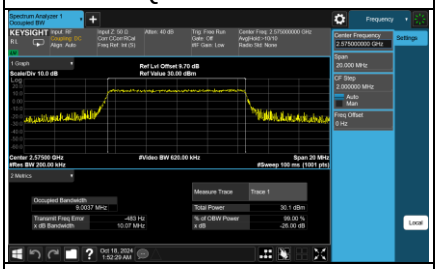
256QAM-38225



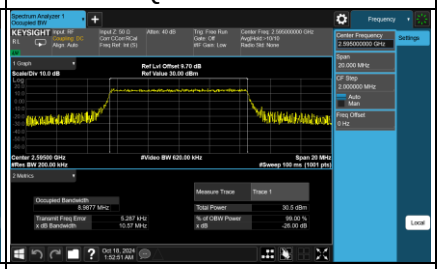
LTE Band 38_10MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
37800	2575	9.0037	8.9860	8.9644	8.9789	10.07	10.12	9.505	9.502
38000	2595	8.9877	8.9940	8.9622	8.9862	10.57	10.67	9.496	9.497
38200	2615	9.0020	8.9965	8.9756	8.9768	10.28	9.958	9.501	9.475

Spectrum Plot

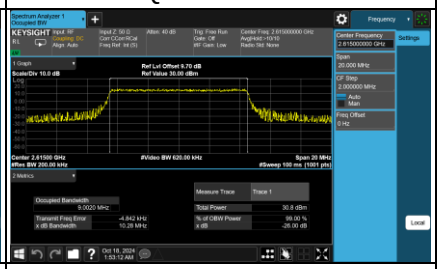
QPSK-37800



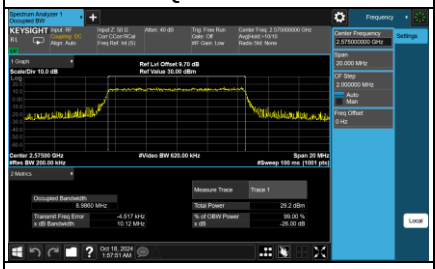
QPSK-38000



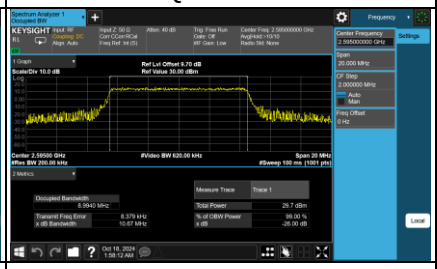
QPSK-38200



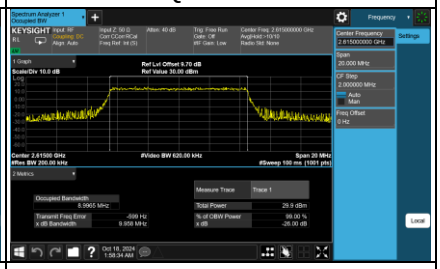
16QAM-37800



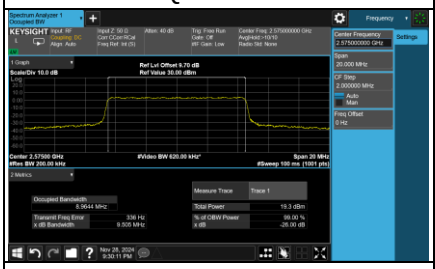
16QAM-38000



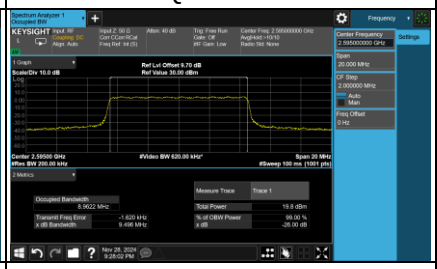
16QAM-38200



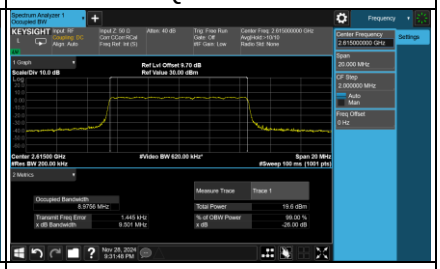
64QAM-37800



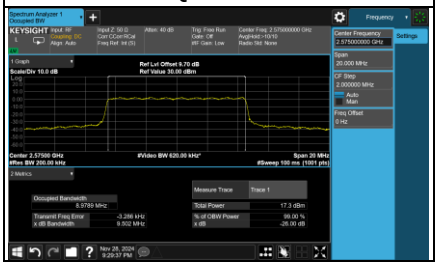
64QAM-38000



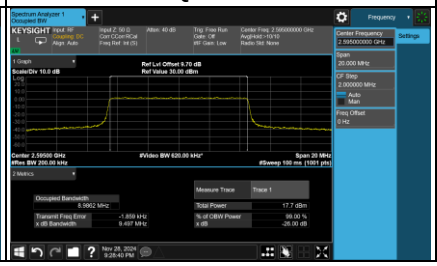
64QAM-38200



256QAM-37800



256QAM-38000



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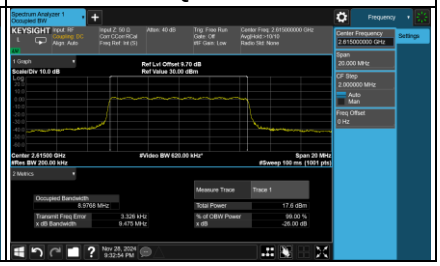
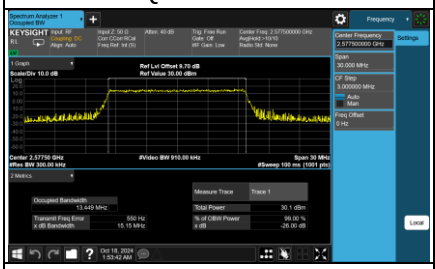


LTE Band 38_15MHz									
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
37825	2577.5	13.449	13.494	13.481	13.427	15.15	15.10	14.23	14.22
38000	2595	13.497	13.464	13.455	13.467	15.71	15.67	14.23	14.20
38175	2612.5	13.498	13.456	13.468	13.473	14.83	14.92	14.23	14.21

Spectrum Plot

QPSK-37825



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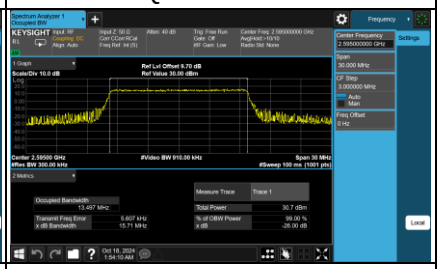

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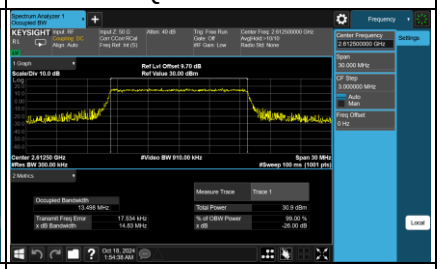

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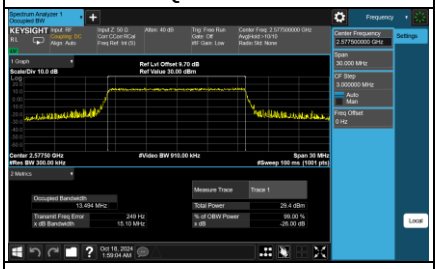

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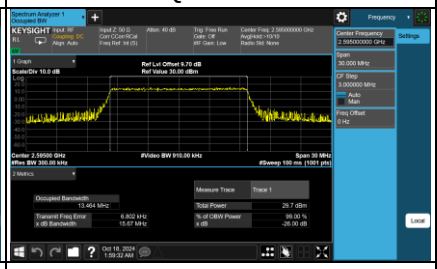

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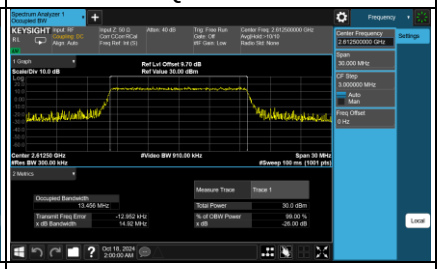

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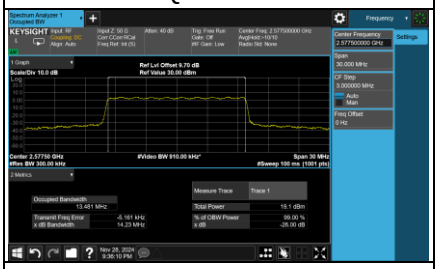

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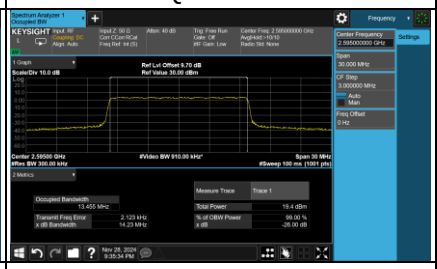

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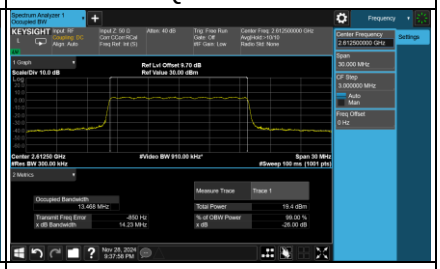

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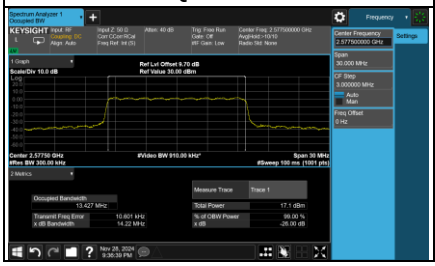

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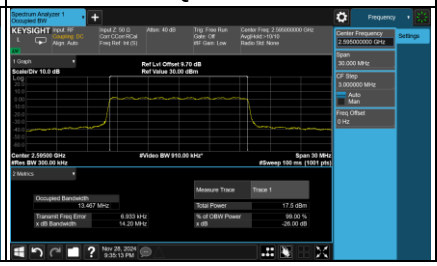
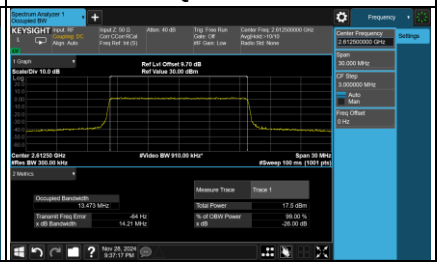
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