



Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	21.09	20.91	20.87	21.42	21.45	21.43	24.27	24.20	24.17	22.97	0.1982
20	1	49		20.98	20.91	20.94	21.53	21.34	21.31	24.27	24.14	24.14		
20	25	12		20.92	20.96	20.90	21.44	21.24	21.31	24.20	24.11	24.12		
20	1	0		19.12	19.08	18.84	19.45	19.42	19.39	22.30	22.26	22.13		
20	1	50		18.91	18.92	18.84	19.50	19.31	19.34	22.23	22.13	22.11		
20	51	0		18.48	18.43	18.38	19.01	18.73	18.77	21.76	21.59	21.59		
20	1	1	16-QAM	20.46	20.68	20.56	20.88	21.08	20.98	23.69	23.89	23.79	22.59	0.1816
20	1	1	64-QAM	19.00	18.92	18.72	19.50	19.58	19.43	22.27	22.27	22.10		
20	1	1	256-QAM	15.84	15.82	15.86	16.45	16.34	16.51	19.17	19.10	19.21		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
25	1	1	QPSK	21.06	21.18	20.87	21.41	21.46	21.39	24.25	24.33	24.15	23.03	0.2009
25	1	63		20.89	20.95	20.88	21.43	21.32	21.23	24.18	24.15	24.07		
25	33	16		20.92	20.92	20.86	21.48	21.27	21.33	24.22	24.11	24.11		
25	1	0		19.15	19.12	18.96	19.41	19.38	19.41	22.29	22.26	22.20		
25	1	64		18.92	18.97	18.90	19.41	19.28	19.25	22.18	22.14	22.09		
25	65	0		18.40	18.41	18.36	18.93	18.75	18.82	21.68	21.59	21.61		
25	1	1	16-QAM	20.76	20.50	20.33	21.00	21.03	20.89	23.89	23.78	23.63	22.59	0.1816
25	1	1	64-QAM	18.92	19.06	18.64	19.15	19.46	19.34	22.05	22.27	22.01		
25	1	1	256-QAM	16.11	15.99	15.77	16.46	16.55	16.45	19.30	19.29	19.13		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	21.05	21.07	20.93	21.49	21.60	21.34	24.29	24.35	24.15	23.05	0.2018
30	1	76		20.84	20.85	20.87	21.45	21.36	21.34	24.17	24.12	24.12		
30	39	19		20.91	20.95	20.89	21.53	21.29	21.37	24.24	24.13	24.15		
30	1	0		19.08	19.09	18.90	19.48	19.54	19.44	22.29	22.33	22.19		
30	1	77		18.89	18.87	18.90	19.44	19.32	19.30	22.18	22.11	22.11		
30	78	0		18.42	18.45	18.36	19.02	18.76	18.86	21.74	21.62	21.63		
30	1	1	16-QAM	20.71	20.72	20.56	20.99	20.97	20.93	23.86	23.86	23.76	22.56	0.1803
30	1	1	64-QAM	18.95	18.92	18.81	19.45	19.62	19.51	22.22	22.29	22.18		
30	1	1	256-QAM	16.09	16.09	15.89	16.51	16.55	16.48	19.32	19.34	19.21		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	21.16	21.02	20.99	21.45	21.50	21.36	24.32	24.28	24.19	23.02	0.2004
40	1	104		21.03	20.85	20.86	21.40	21.22	21.28	24.23	24.05	24.09		
40	53	26		20.93	20.95	20.86	21.58	21.28	21.34	24.28	24.13	24.12		
40	1	0		19.21	19.08	19.11	19.47	19.55	19.42	22.35	22.33	22.28		
40	1	105		18.99	18.76	18.85	19.38	19.24	19.29	22.20	22.02	22.09		
40	106	0		18.45	18.44	18.38	19.05	18.77	18.86	21.77	21.62	21.64		
40	1	1	16-QAM	20.58	20.59	20.61	21.10	21.10	20.96	23.86	23.86	23.80	22.56	0.1803
40	1	1	64-QAM	19.18	18.92	19.11	19.23	19.32	19.28	22.22	22.13	22.21		
40	1	1	256-QAM	16.06	15.97	16.06	16.49	16.53	16.48	19.29	19.27	19.29		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	21.14	21.04	21.00	21.55	21.73	21.41	24.36	24.41	24.22	23.11	0.2046
50	1	131		20.85	20.89	20.88	21.21	21.30	21.32	24.04	24.11	24.12		
50	67	33		20.93	20.95	20.84	21.51	21.26	21.35	24.24	24.12	24.11		
50	1	0		19.15	19.18	19.08	19.55	19.70	19.38	22.36	22.46	22.24		
50	1	132		18.94	18.84	18.96	19.24	19.33	19.23	22.10	22.10	22.11		
50	133	0		18.44	18.46	18.31	18.96	18.79	18.80	21.72	21.64	21.57		
50	1	1	16-QAM	20.65	20.56	20.65	21.12	21.23	20.90	23.90	23.92	23.79	22.62	0.1828
50	1	1	64-QAM	19.14	19.19	18.88	19.53	19.55	19.47	22.35	22.38	22.20		
50	1	1	256-QAM	16.18	16.08	15.95	16.61	16.71	16.20	19.41	19.42	19.09		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	21.23	21.03	21.27	21.54	21.70	21.52	24.40	24.39	24.41	23.11	0.2046
60	1	160		20.43	20.75	20.93	21.20	21.40	21.30	23.84	24.10	24.13		
60	81	40		20.94	20.95	20.86	21.51	21.28	21.38	24.24	24.13	24.14		
60	1	0		19.27	19.12	19.31	19.53	19.69	19.61	22.41	22.42	22.47		
60	1	161		17.96	18.77	18.95	19.20	19.28	19.29	21.63	22.04	22.13		
60	162	0		18.47	18.45	18.36	18.91	18.87	18.85	21.71	21.68	21.62		
60	1	1	16-QAM	20.69	20.63	20.64	20.99	21.14	21.12	23.85	23.90	23.90	22.6	0.1820
60	1	1	64-QAM	19.13	19.03	19.09	19.54	19.73	19.72	22.35	22.40	22.43		
60	1	1	256-QAM	15.83	15.99	16.34	16.52	16.74	16.63	19.20	19.39	19.50		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	20.82	21.11	21.25	21.60	21.71	21.68	24.24	24.43	24.48	23.18	0.2080
70	1	187		20.38	20.84	21.06	21.26	21.27	21.26	23.85	24.07	24.17		
70	95	47		21.07	20.93	20.98	21.38	21.25	21.41	24.24	24.10	24.21		
70	1	0		19.40	19.23	19.32	19.48	19.71	19.68	22.45	22.49	22.51		
70	1	188		17.91	18.73	18.88	19.21	19.39	19.36	21.62	22.08	22.14		
70	189	0		18.10	18.52	18.43	18.96	18.83	18.90	21.56	21.69	21.68		
70	1	1	16-QAM	20.69	20.67	20.66	21.04	21.28	21.22	23.88	24.00	23.96	22.7	0.1862
70	1	1	64-QAM	18.72	19.04	19.42	19.59	19.91	19.32	22.19	22.51	22.38		
70	1	1	256-QAM	16.10	16.08	16.17	16.81	16.84	16.80	19.48	19.49	19.51		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	21.30	21.20	21.26	21.75	21.76	21.84	24.54	24.50	24.57	23.27	0.2123
80	1	215		20.90	21.00	20.96	21.31	21.13	21.29	24.12	24.08	24.14		
80	109	54		21.11	20.57	21.06	21.45	21.32	21.38	24.29	23.97	24.23		
80	1	0		19.44	19.30	19.33	19.80	19.75	19.77	22.63	22.54	22.57		
80	1	216		18.88	18.84	18.96	19.25	19.14	19.31	22.08	22.00	22.15		
80	217	0		18.63	18.52	18.58	18.98	18.80	18.88	21.82	21.67	21.74		
80	1	1	16-QAM	20.92	20.68	20.69	21.16	21.03	21.38	24.05	23.87	24.06	22.76	0.1888
80	1	1	64-QAM	19.35	18.75	19.17	19.68	19.78	19.71	22.53	22.31	22.46		
80	1	1	256-QAM	16.36	15.14	16.10	16.80	16.75	16.89	19.60	19.03	19.52		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	21.41	21.24	21.24	21.73	21.84	21.82	24.58	24.56	24.55	23.28	0.2128
90	1	243		20.93	21.00	20.96	21.21	21.31	21.29	24.08	24.17	24.14		
90	123	61		21.04	20.97	21.06	21.38	21.39	21.38	24.22	24.20	24.23		
90	1	0		19.54	19.38	19.33	19.75	19.70	19.81	22.66	22.55	22.59		
90	1	244		18.88	18.97	18.95	19.27	19.42	19.31	22.09	22.21	22.14		
90	245	0		18.60	18.55	18.59	18.85	18.83	18.88	21.74	21.70	21.75		
90	1	1	16-QAM	20.81	20.92	20.92	21.37	21.19	21.23	24.11	24.07	24.09	22.81	0.1910
90	1	1	64-QAM	19.70	19.34	19.24	19.42	19.53	19.78	22.57	22.45	22.53		
90	1	1	256-QAM	16.38	15.20	16.31	16.78	16.78	17.14	19.59	19.07	19.76		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n78 Maximum Average Power [dBm], DG = -1.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	21.56	-	-	21.65	-	-	24.62	-	23.32	0.2148
100	1	271		-	20.99	-	-	21.41	-	-	24.22	-		
100	137	68		-	21.06	-	-	21.37	-	-	24.23	-		
100	1	0		-	19.61	-	-	19.75	-	-	22.69	-		
100	1	272		-	19.08	-	-	19.46	-	-	22.28	-		
100	273	0		-	18.57	-	-	18.85	-	-	21.72	-		
100	1	1	16-QAM	-	21.10	-	-	21.10	-	-	24.11	-	22.81	0.1910
100	1	1	64-QAM	-	19.35	-	-	19.88	-	-	22.63	-		
100	1	1	256-QAM	-	16.48	-	-	16.90	-	-	19.71	-		
Limit	EIRP < 1W			Result									Pass	

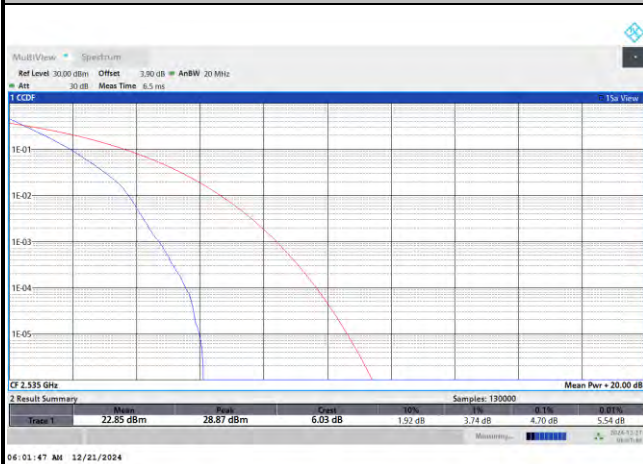
**FR1 n7****Peak-to-Average Ratio**

Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.70	5.96	6.70	6.92	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.86				PASS

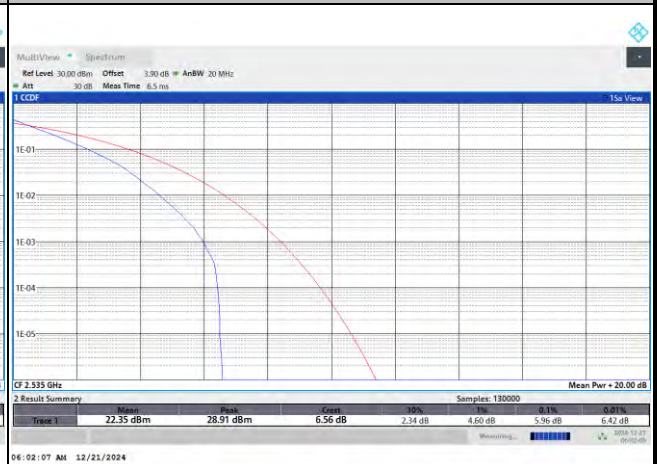


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

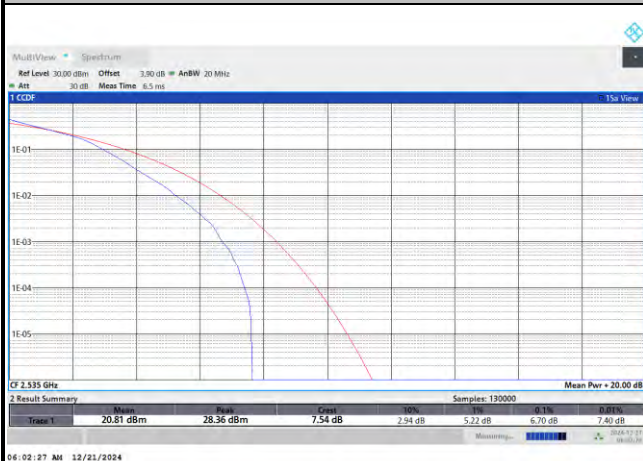
PI/2 BPSK



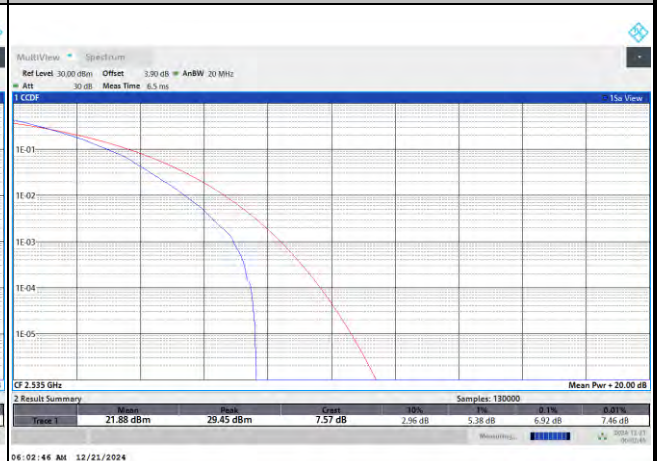
QPSK



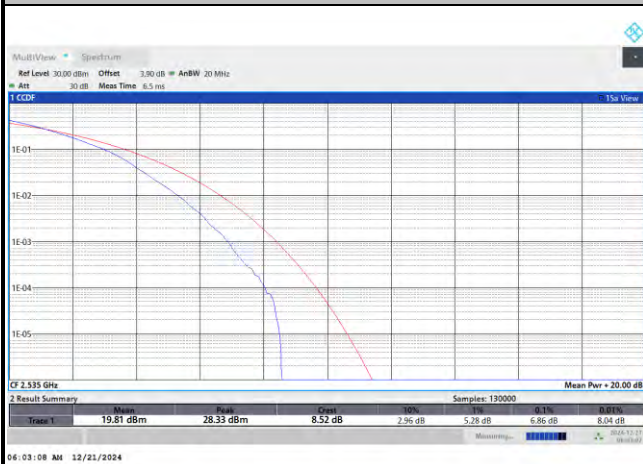
16QAM



64QAM



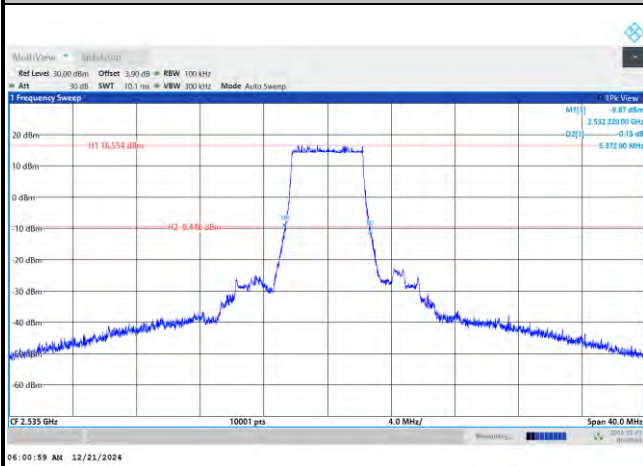
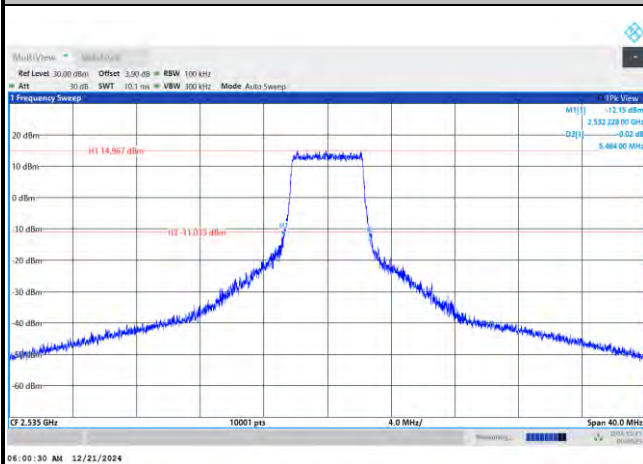
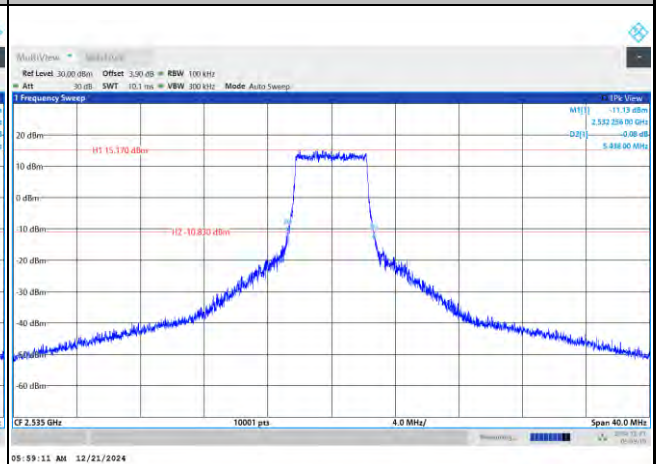
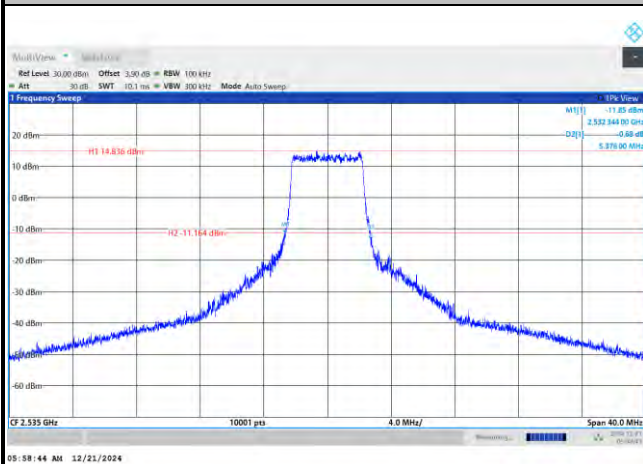
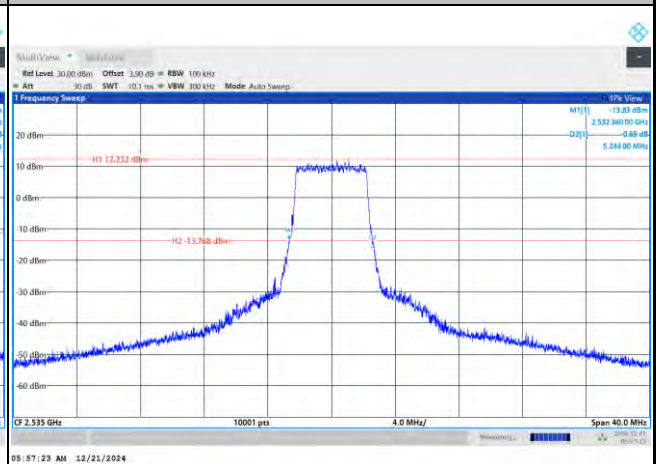
256QAM



**26dB Bandwidth**

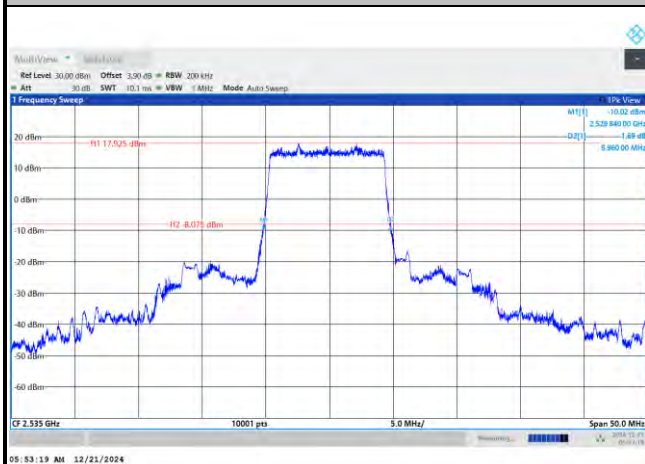
Mode	FR1 n7 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	5.37		9.96		14.75		19.55	
BW	25MHz		30MHz		30MHz		40MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	25.04		33.15		-		43.07	
BW	50MHz							
Mod.	PI/2 BPSK							
Middle CH	53.11							

Mode	FR1 n7 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.46	5.43	10.42	10.41	15.51	15.48	21.33	21.35
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.37	5.24	10.41	10.29	15.42	15.37	21.41	21.50
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	26.18	26.24	33.71	33.73	-	-	43.75	43.45
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	26.44	26.20	33.46	33.46	-	-	43.20	42.93
BW	50MHz							
Mod.	QPSK	16QAM						
Middle CH	52.96	52.85						
Mod.	64QAM	256QAM						
Middle CH	53.04	53.05						

FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


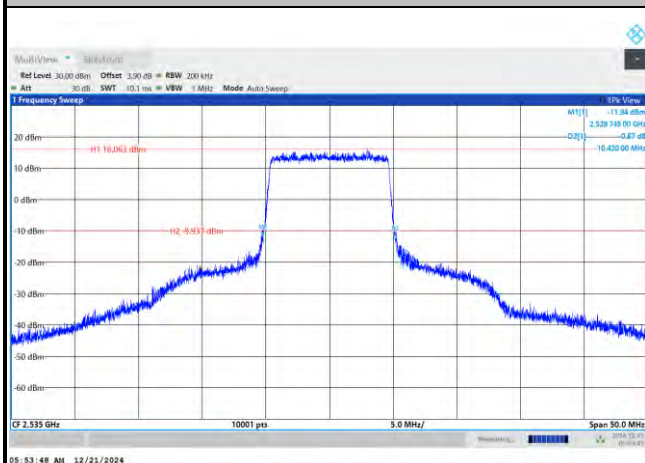
**FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB**

PI/2 BPSK

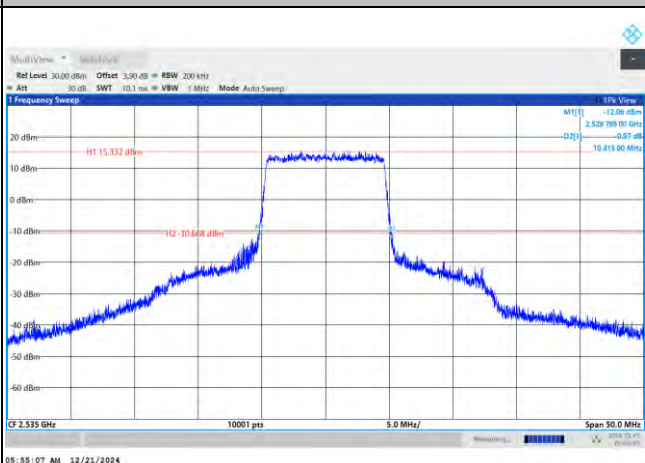


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

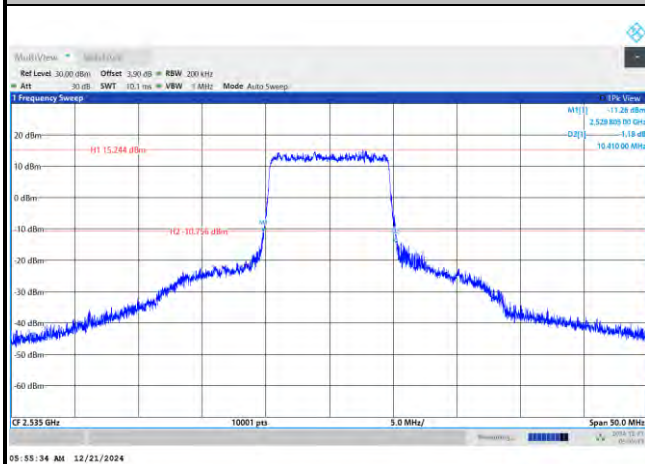
QPSK



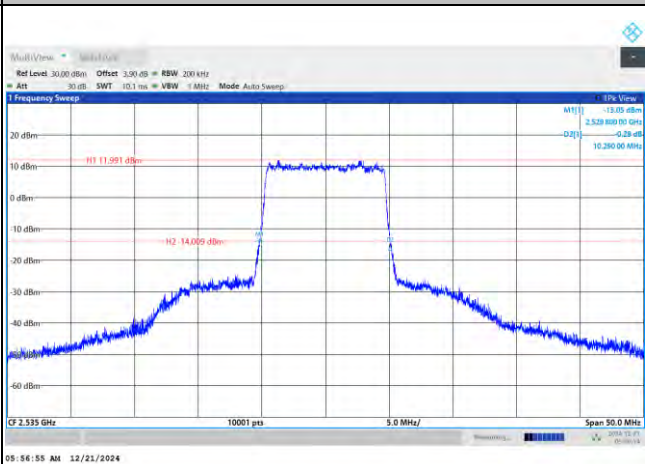
16QAM



64QAM

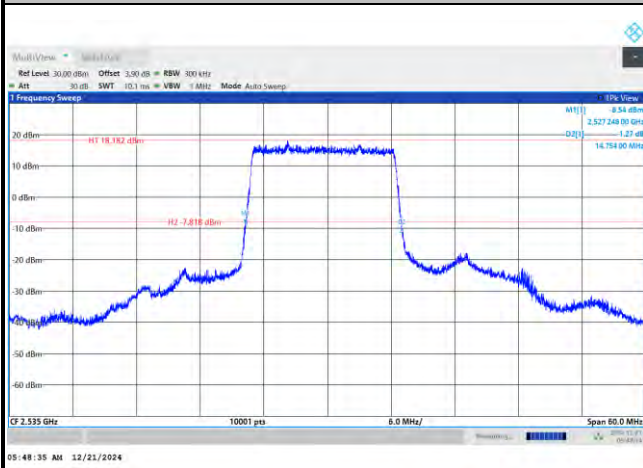


256QAM



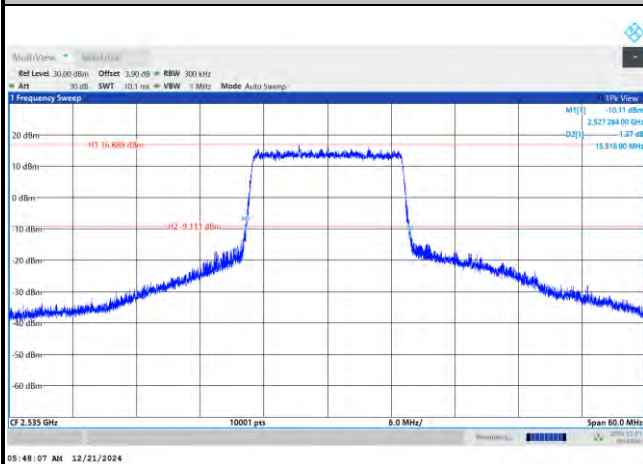
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

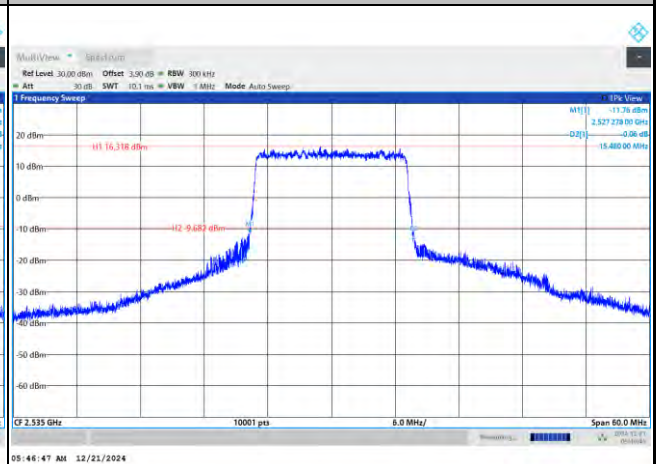


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

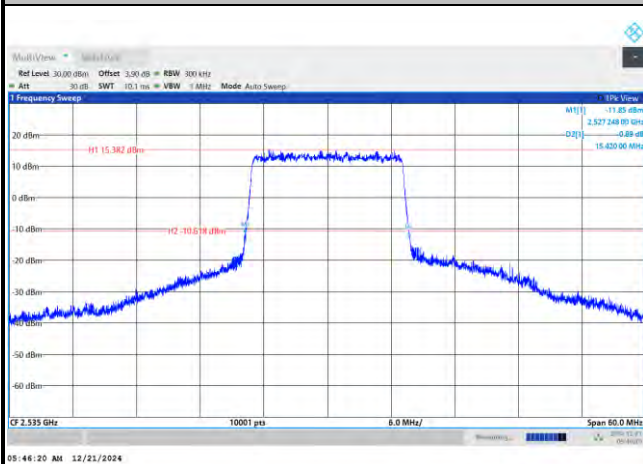
QPSK



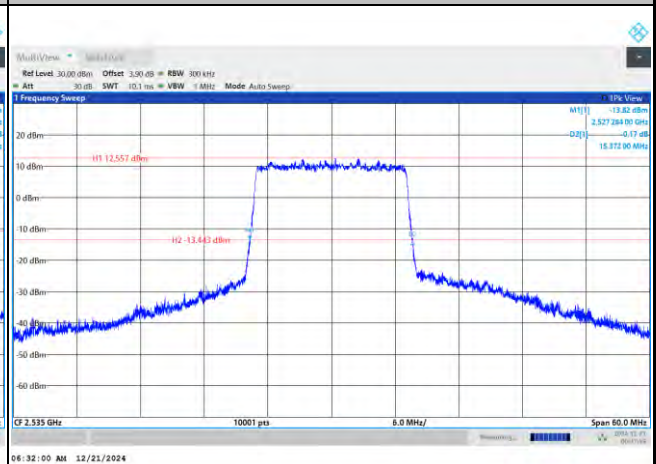
16QAM



64QAM



256QAM



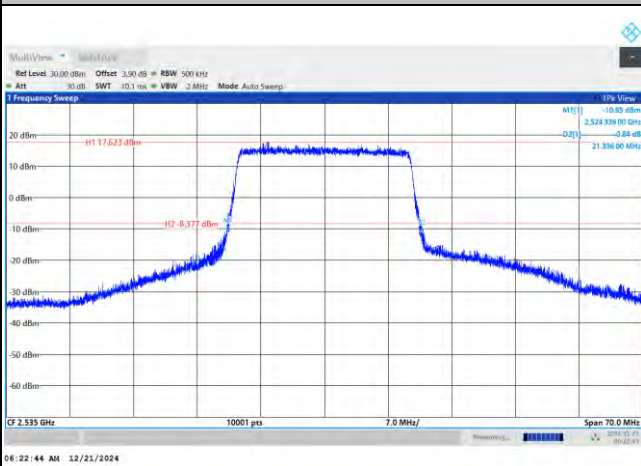
**FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB**

PI/2 BPSK

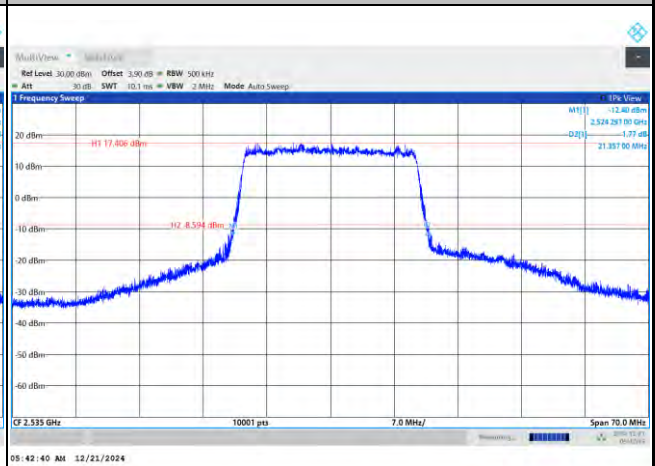


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

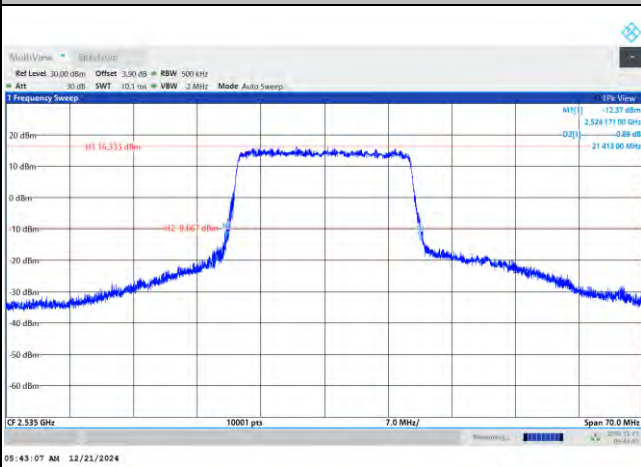
QPSK



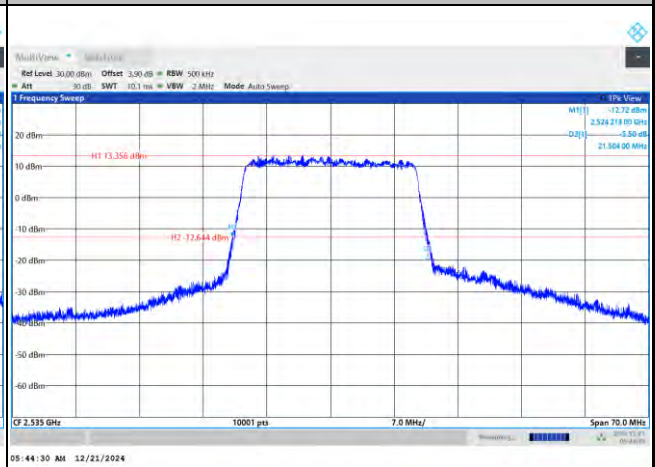
16QAM



64QAM



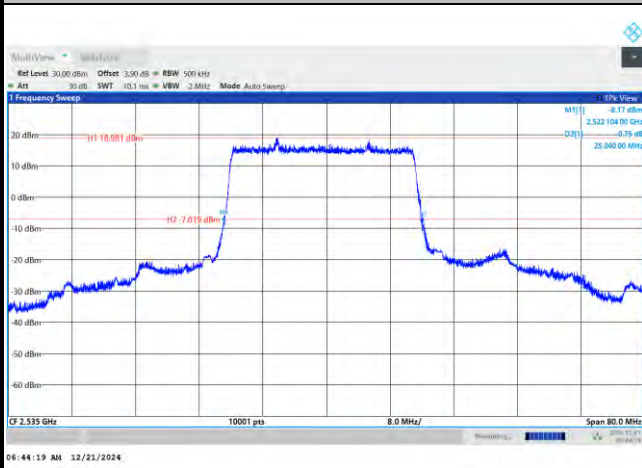
256QAM





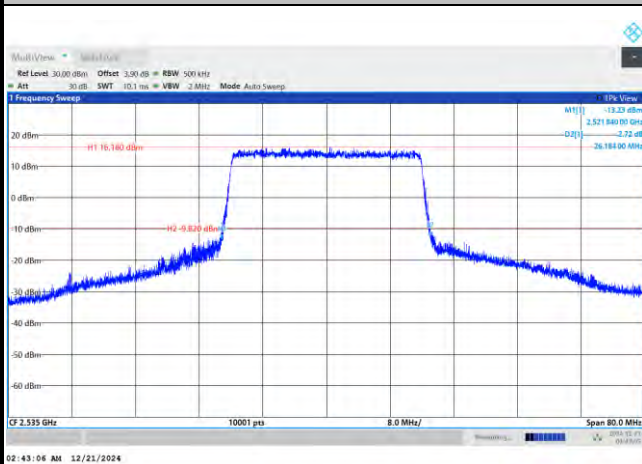
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

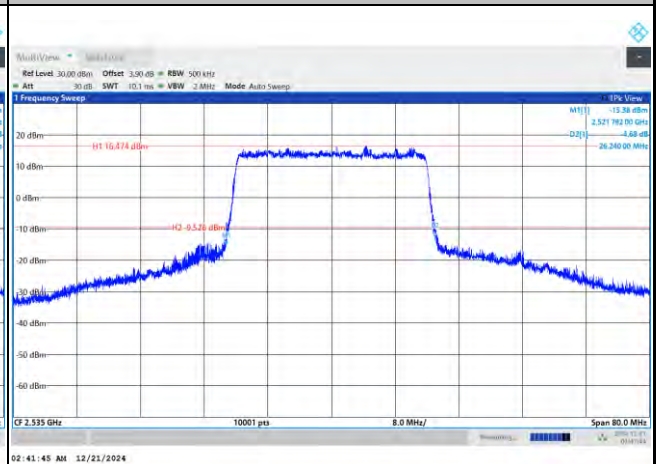


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

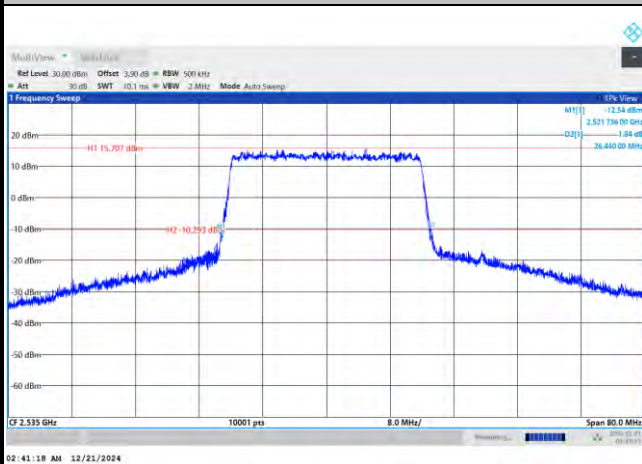
QPSK



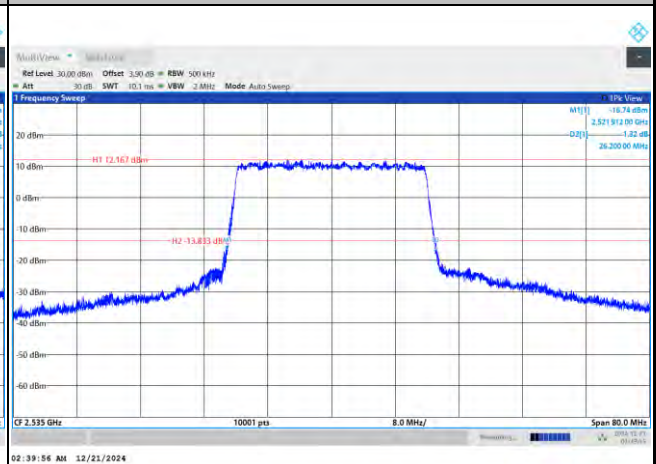
16QAM



64QAM

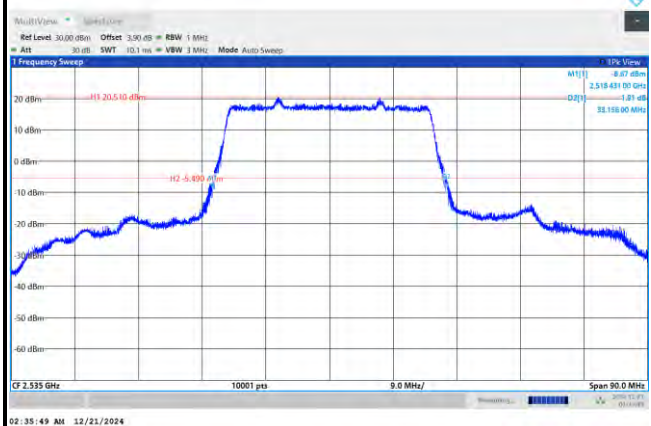


256QAM



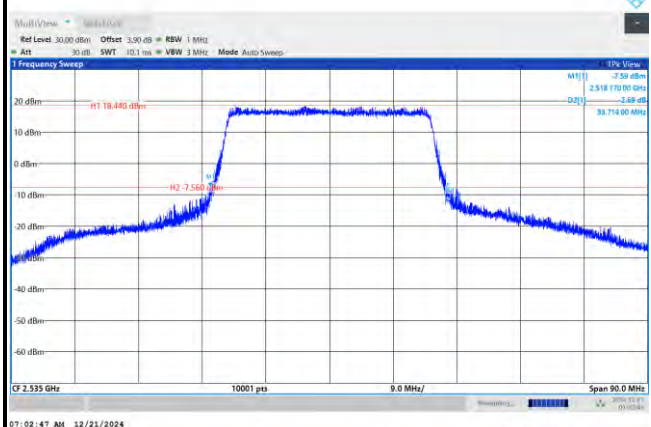
**FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB**

PI/2 BPSK

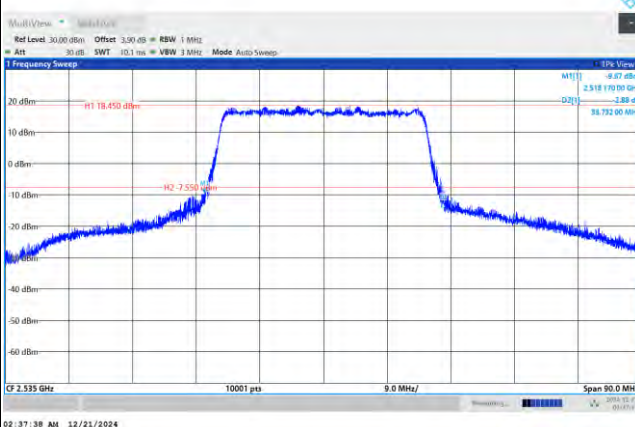


FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

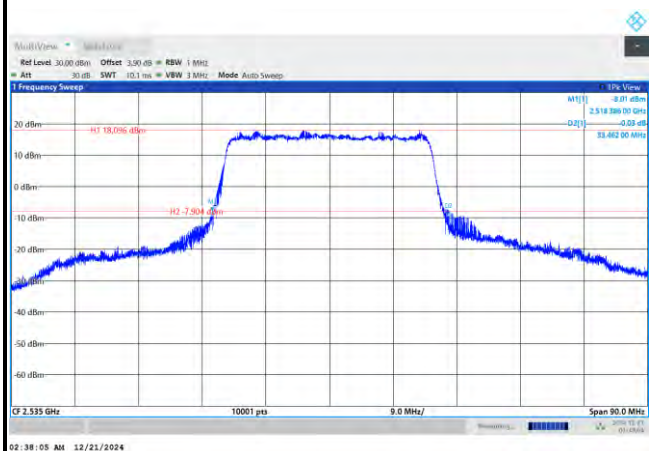
QPSK



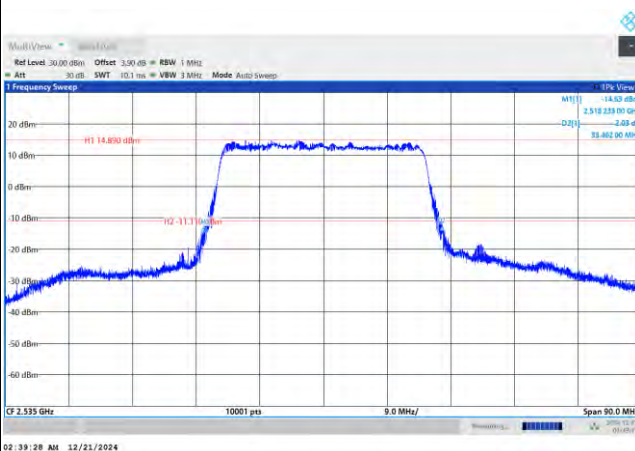
16QAM



64QAM



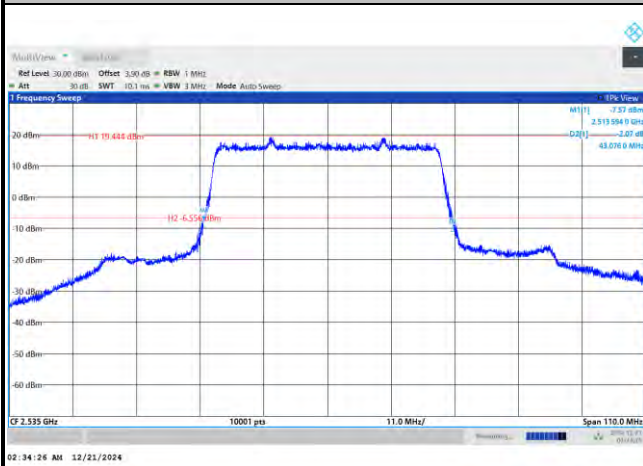
256QAM





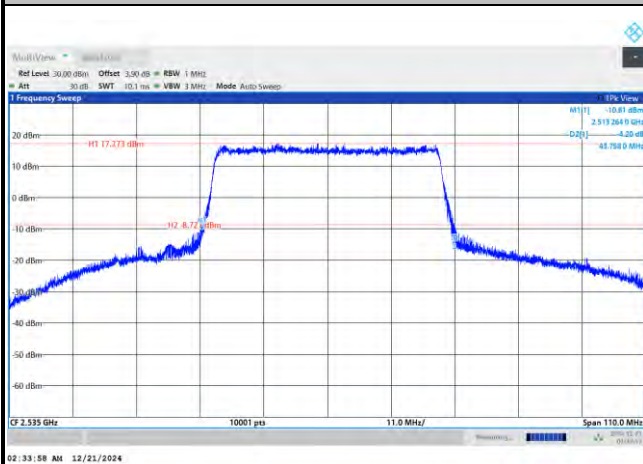
FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

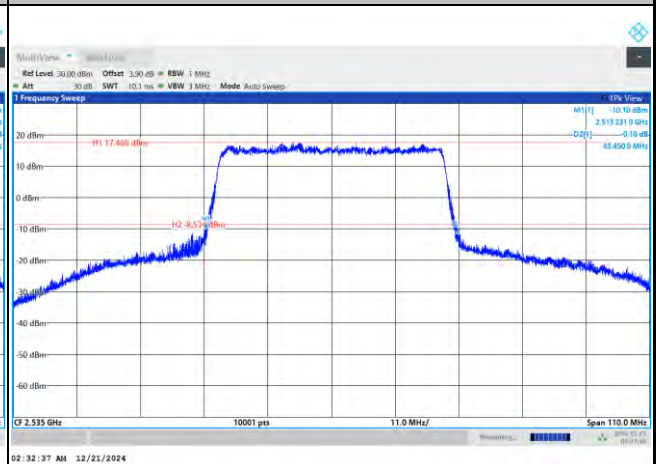


FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

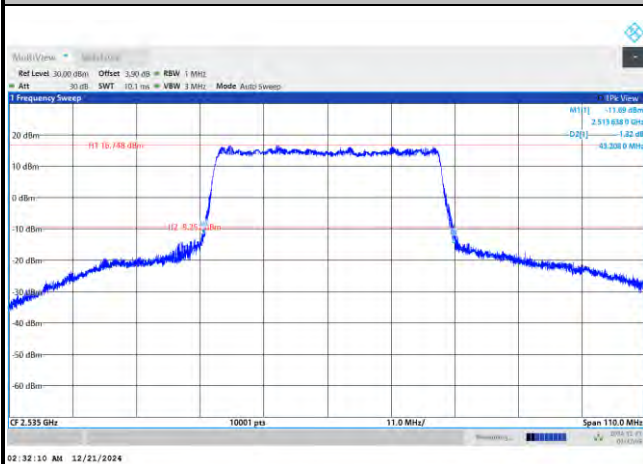
QPSK



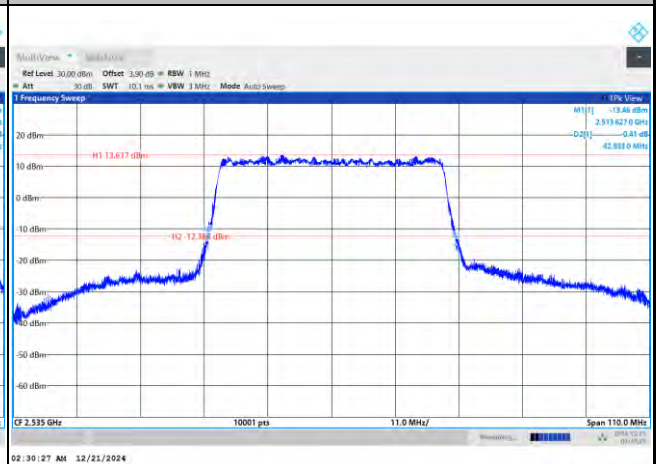
16QAM

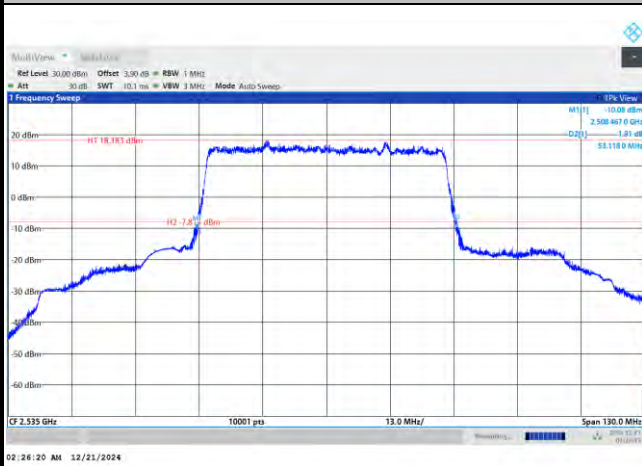


64QAM



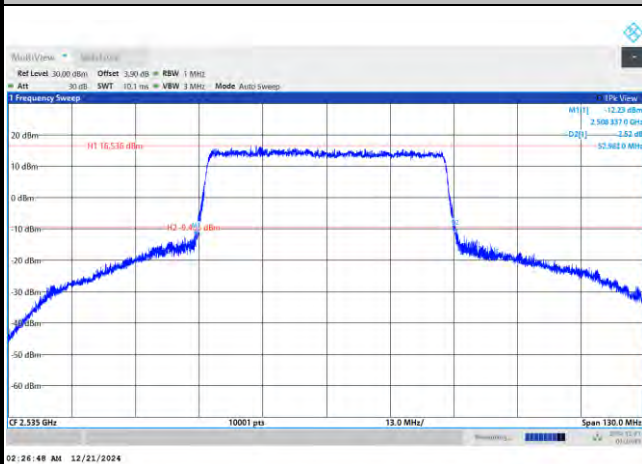
256QAM



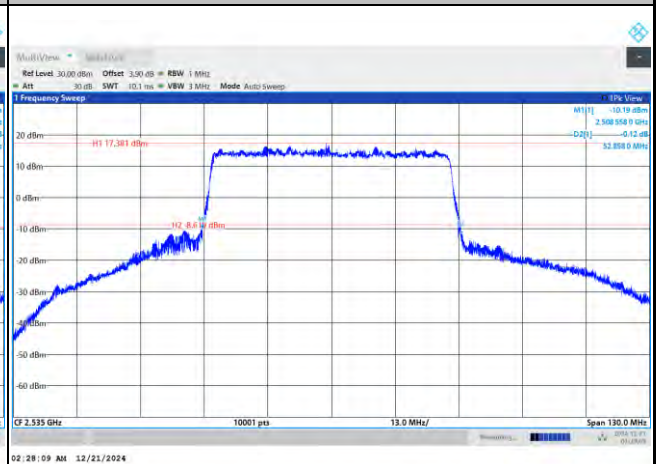
**FR1 n7 / 50MHz / DFT-S OFDM / Middle Channel / Full RB****PI/2 BPSK**

FR1 n7 / 50MHz / CP OFDM / Middle Channel / Full RB

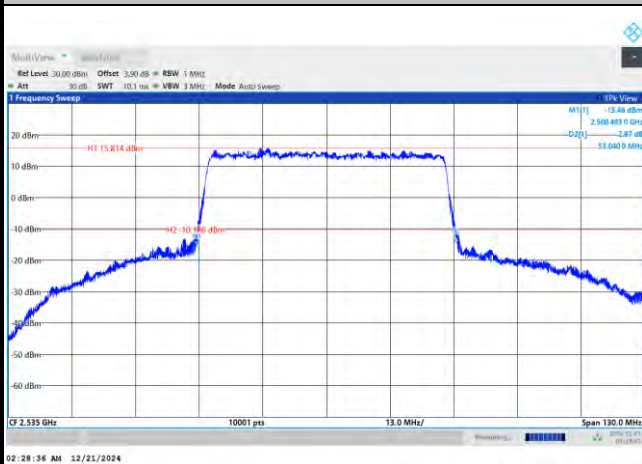
QPSK



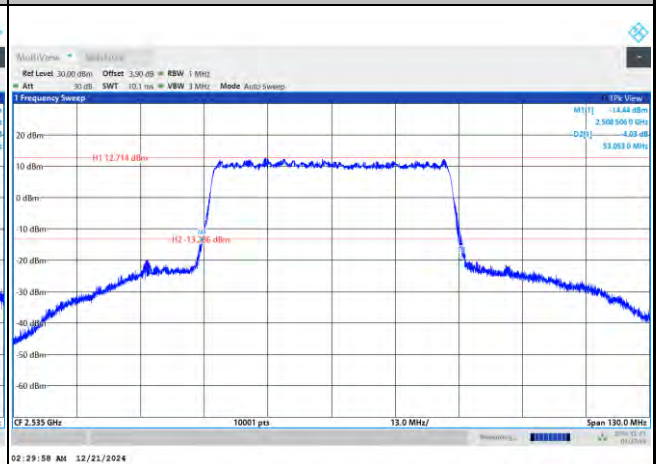
16QAM



64QAM



256QAM



**Occupied Bandwidth**

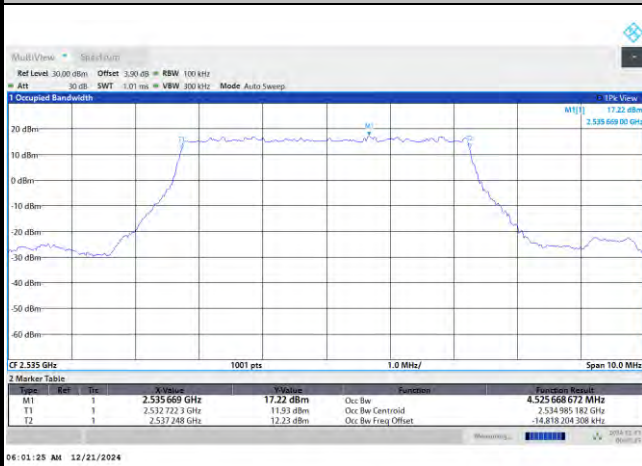
Mode	FR1 n7 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.52		9.00		13.50		18.05	
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	23.01		29.16		-		38.96	
BW	50MHz							
Mod.	PI/2 BPSK							
Middle CH	48.49							

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.53	4.53	9.35	9.34	14.17	14.20	19.08	19.05
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.51	4.51	9.34	9.34	14.16	14.16	19.08	19.07
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	23.85	23.87	29.03	29.04	-	-	38.91	38.84
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	23.92	23.83	28.98	28.92	-	-	38.82	38.87
BW	50MHz							
Mod.	QPSK	16QAM						
Middle CH	48.48	48.55						
Mod.	64QAM	256QAM						
Middle CH	48.39	48.39						



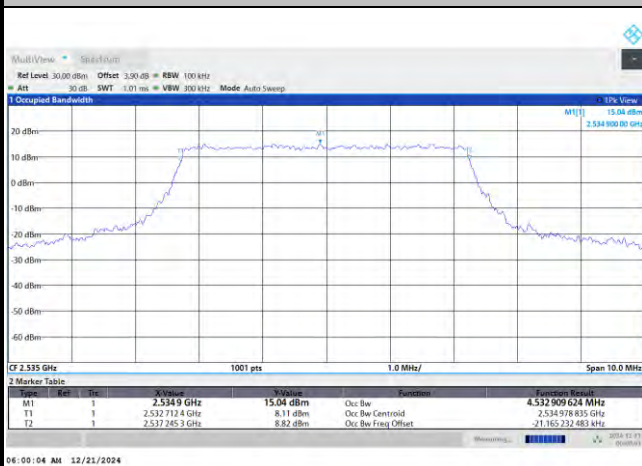
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

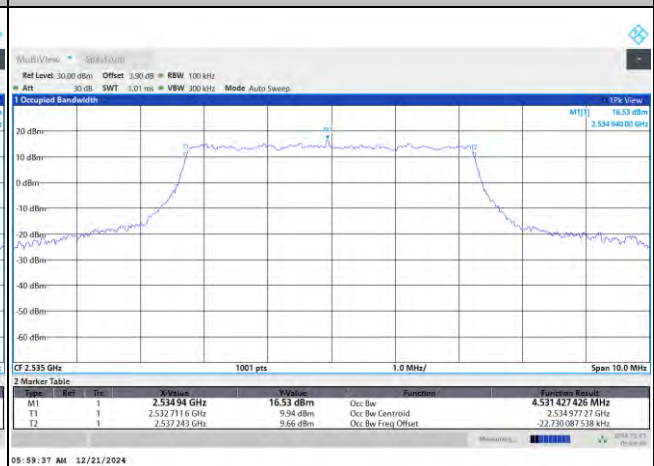


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

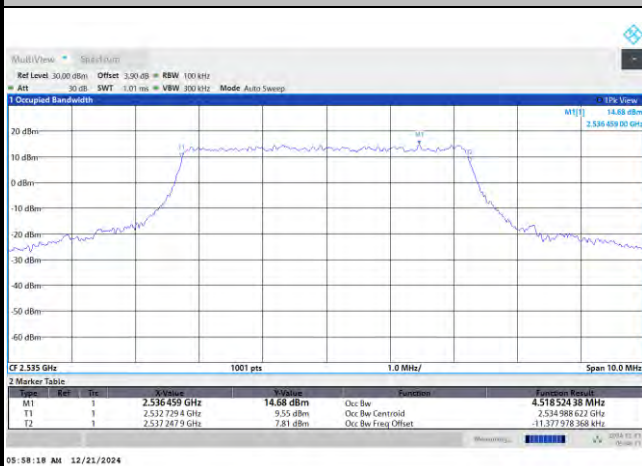
QPSK



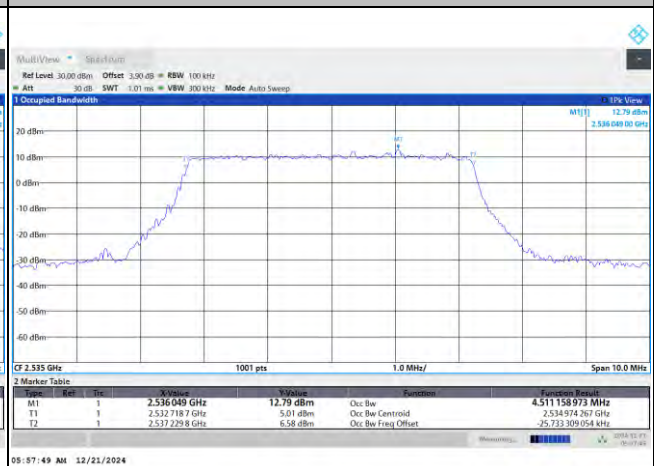
16QAM



64QAM

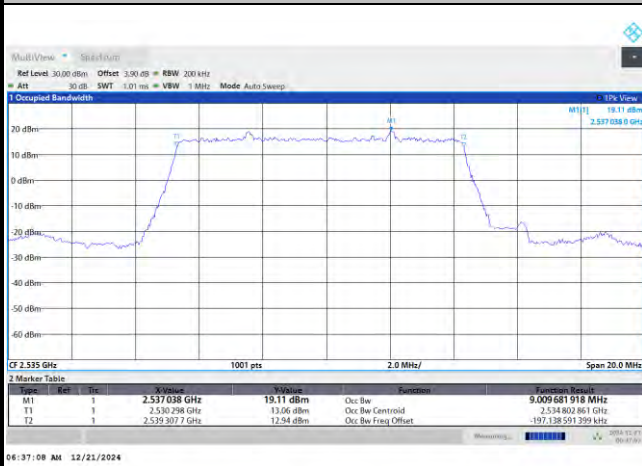


256QAM



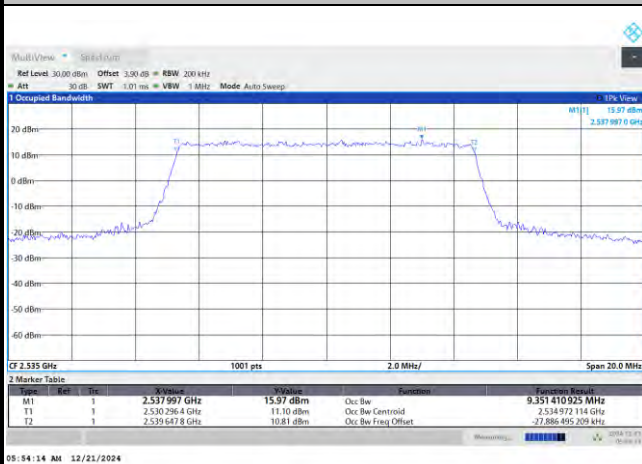
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

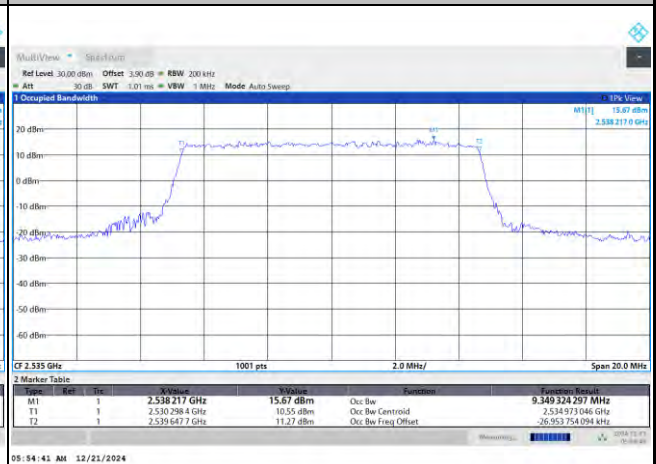


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

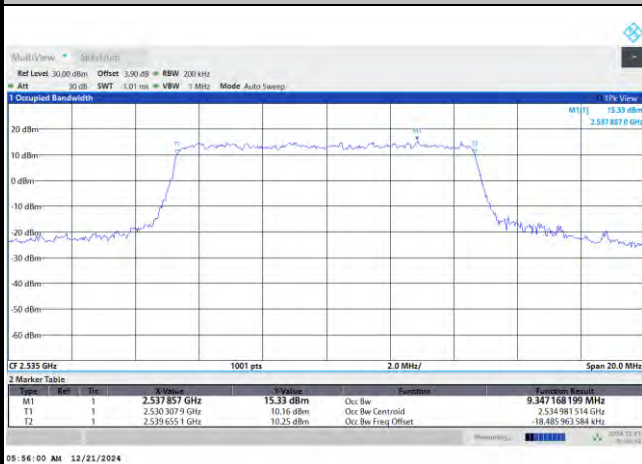
QPSK



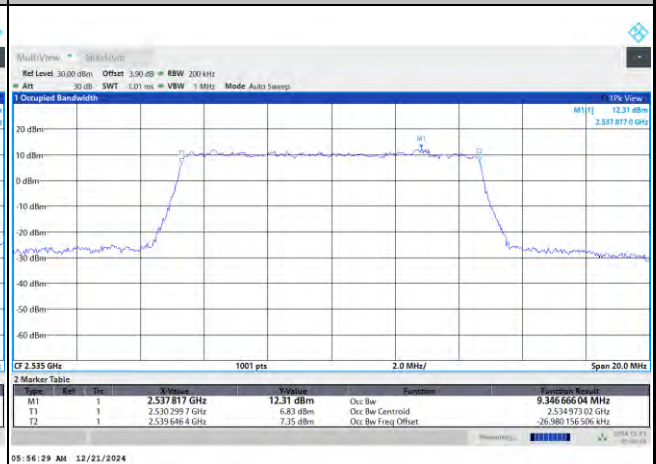
16QAM



64QAM



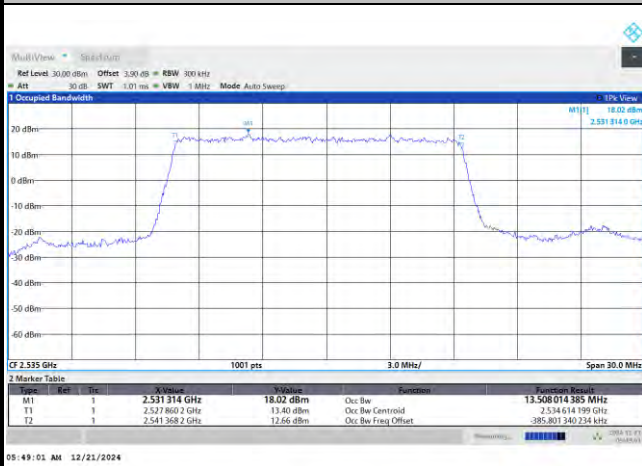
256QAM





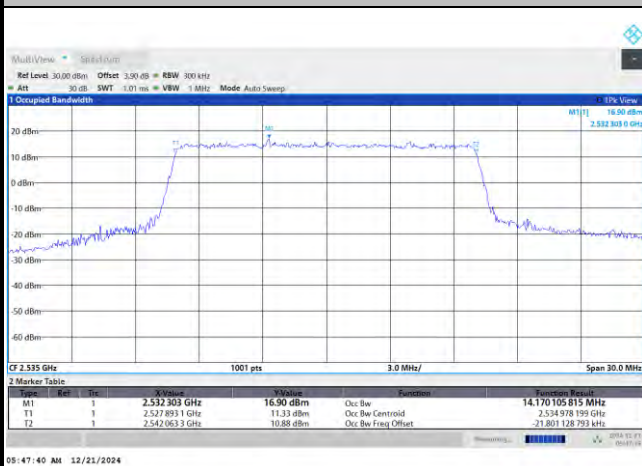
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

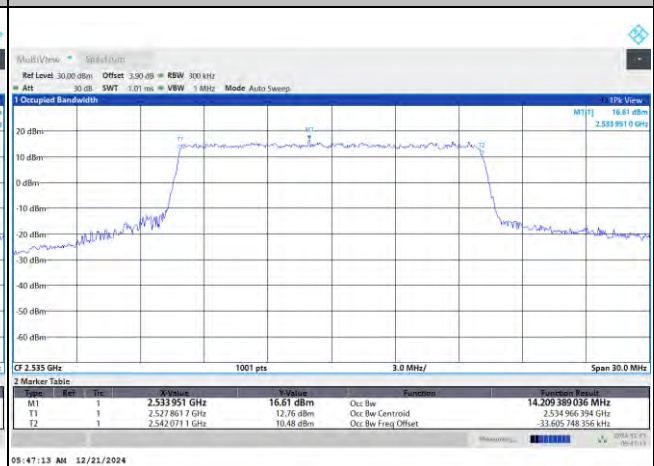


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

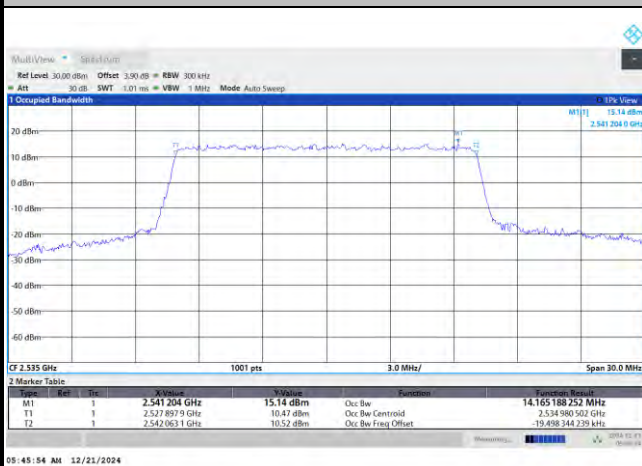
QPSK



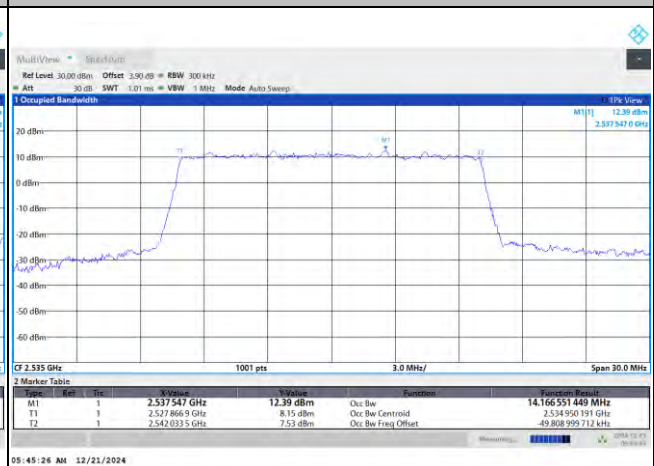
16QAM



64QAM



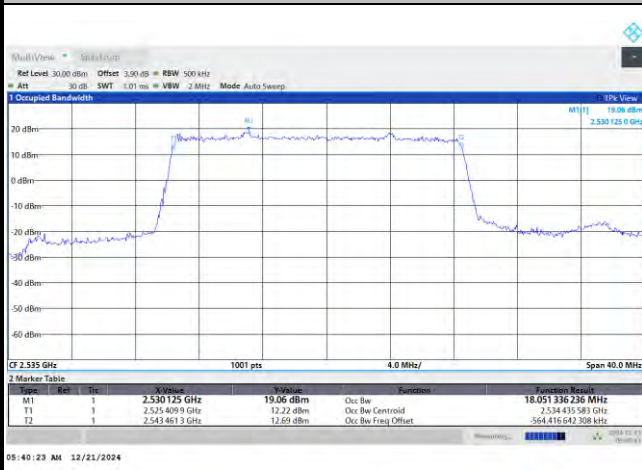
256QAM





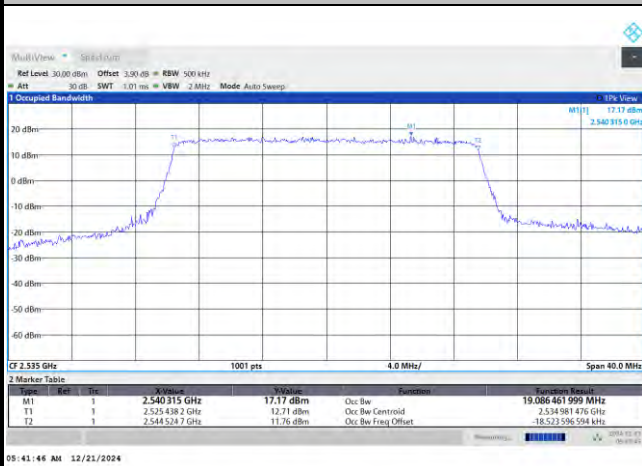
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

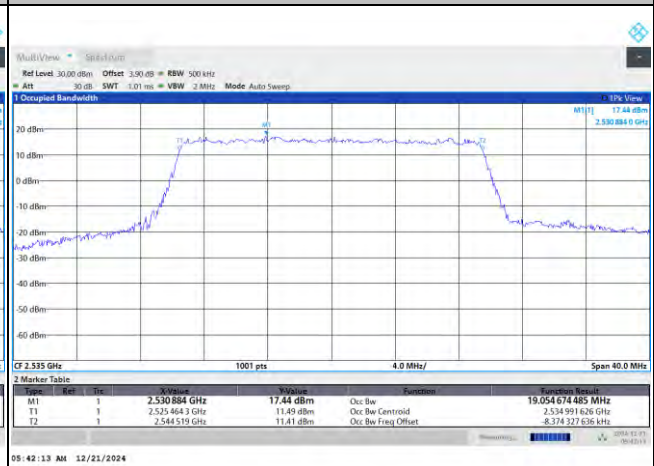


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

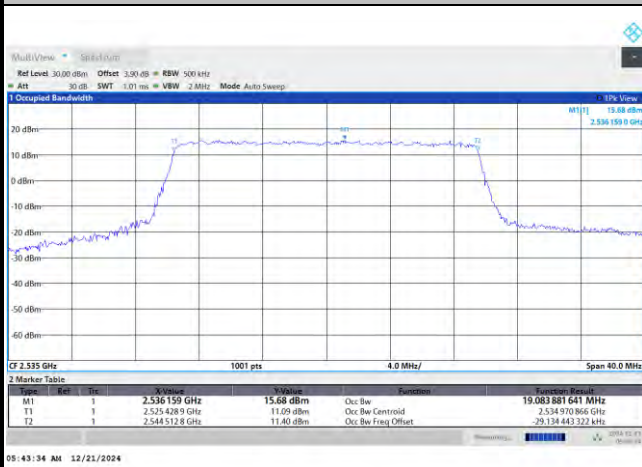
QPSK



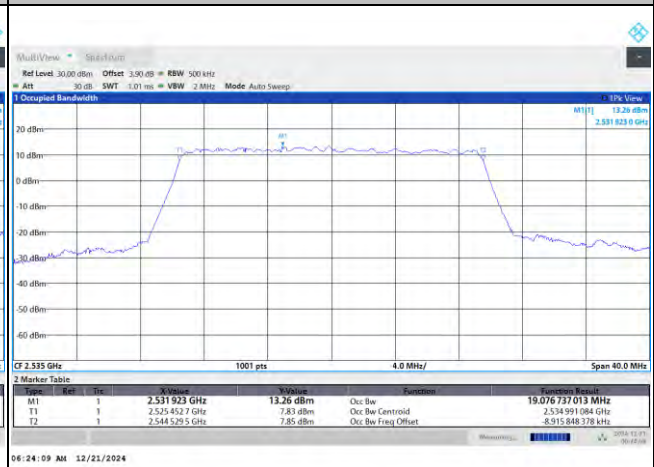
16QAM



64QAM



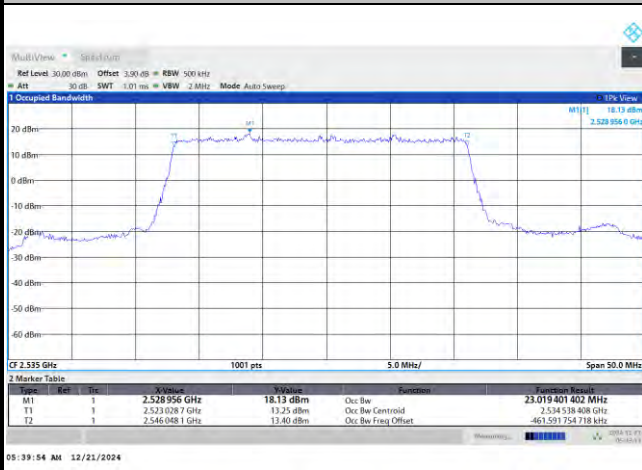
256QAM





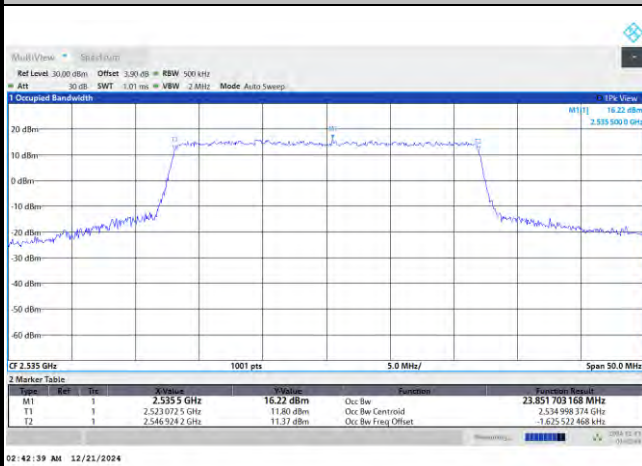
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

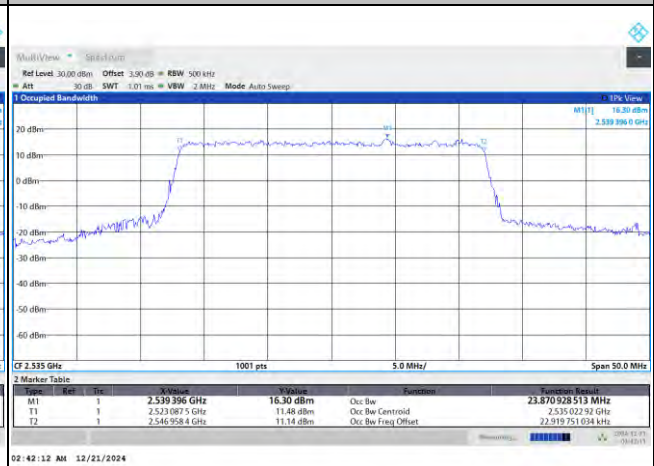


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

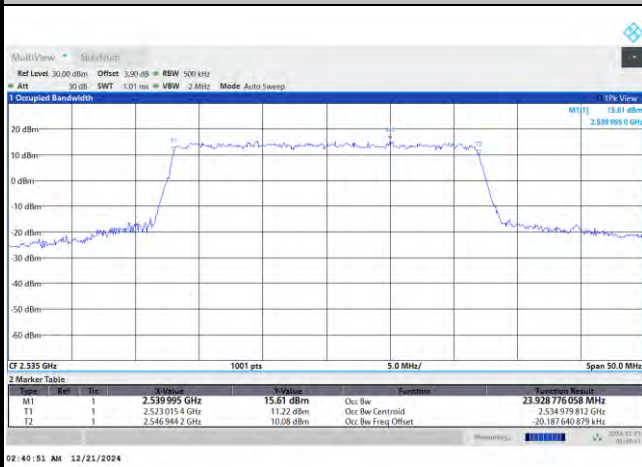
QPSK



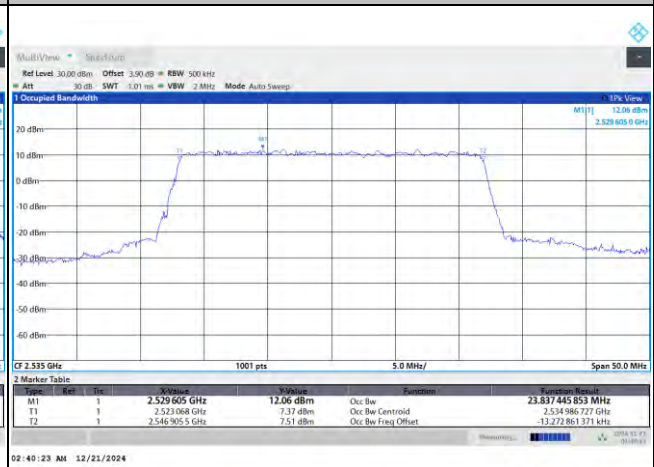
16QAM



64QAM

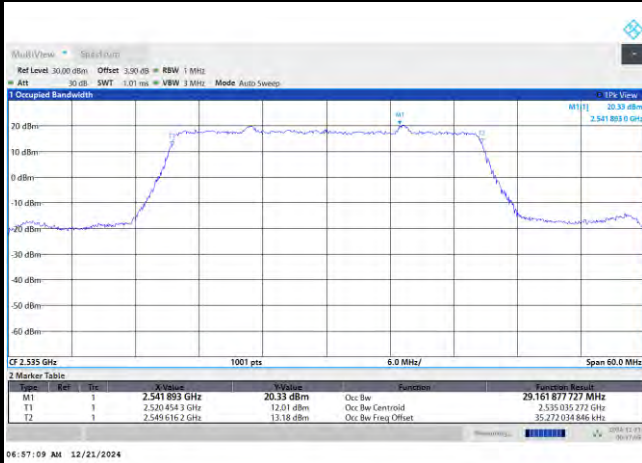


256QAM



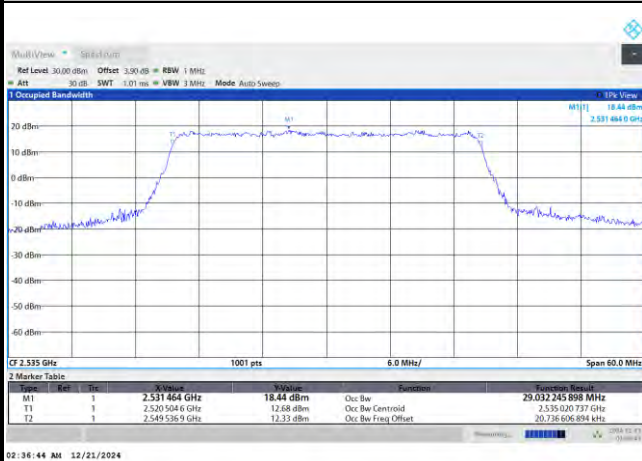
FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

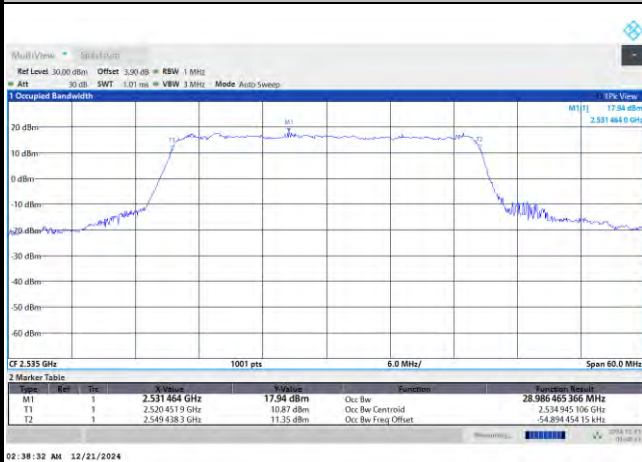
QPSK



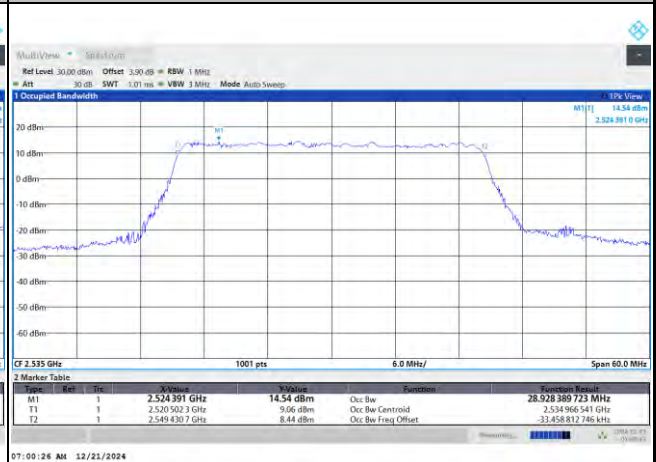
16QAM



64QAM



256QAM





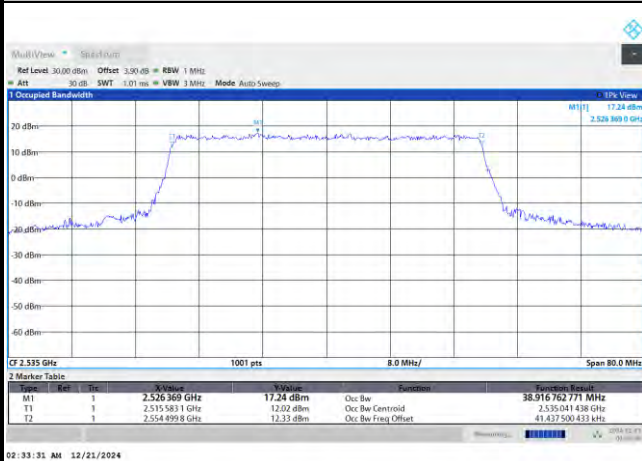
FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

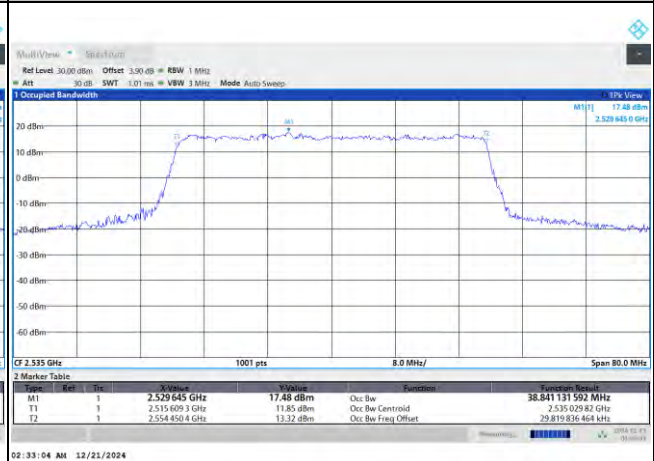


FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

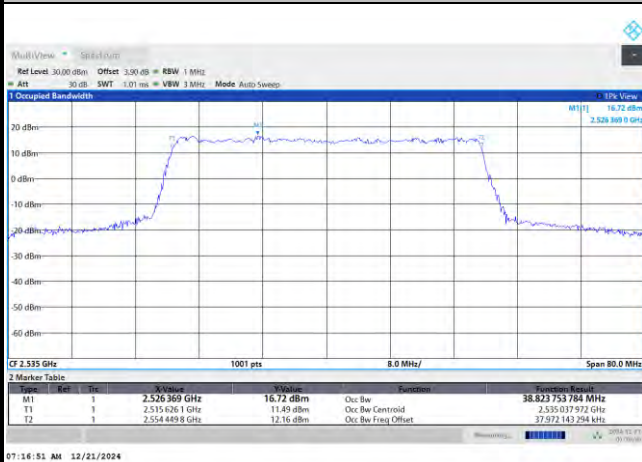
QPSK



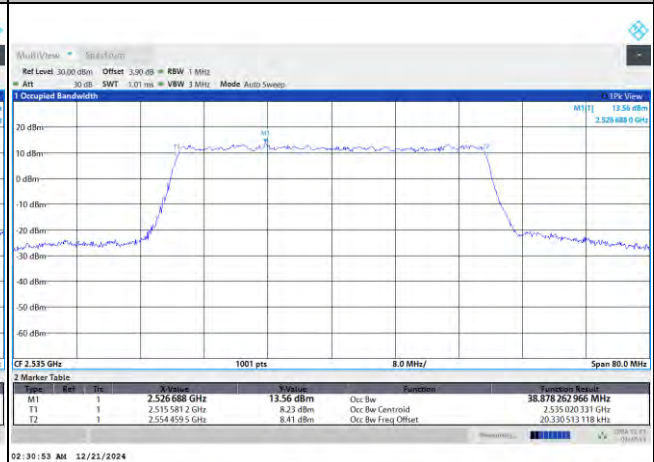
16QAM



64QAM



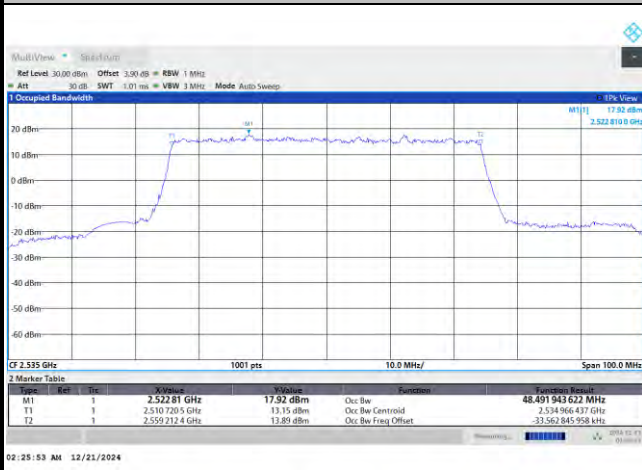
256QAM





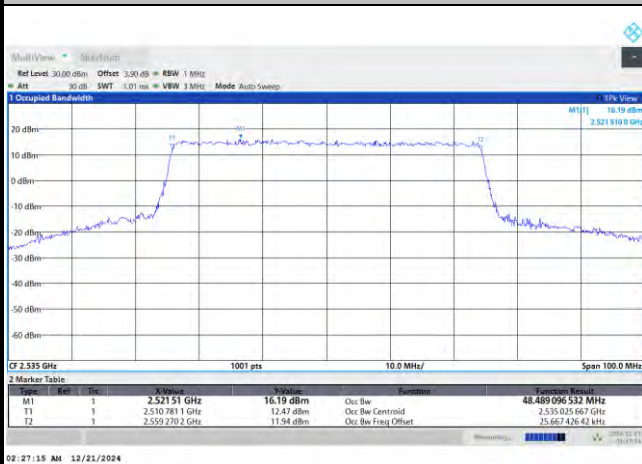
FR1 n7 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

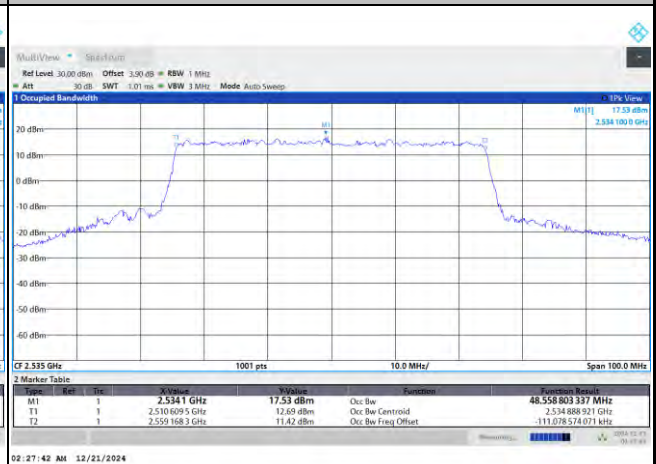


FR1 n7 / 50MHz / CP OFDM / Middle Channel / Full RB

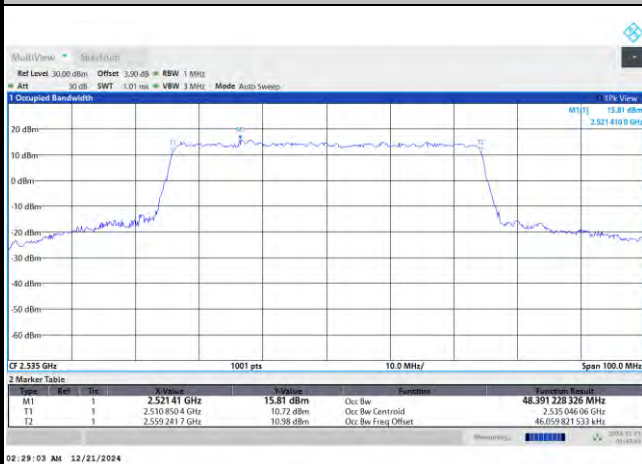
QPSK



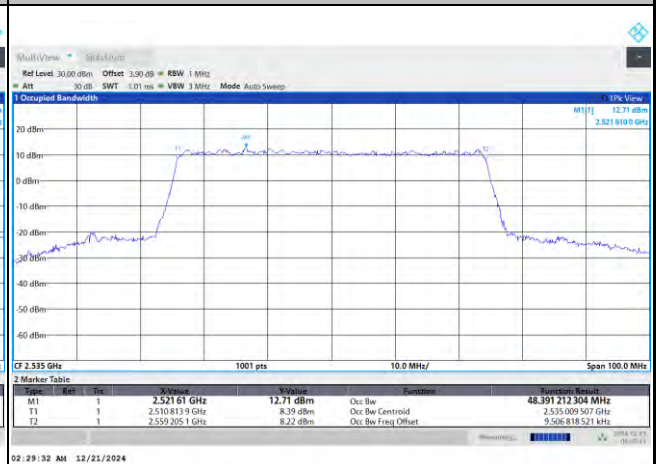
16QAM



64QAM



256QAM





Conducted Band Edge

FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB





FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB





FR1 n7 / 5MHz / DFT-S OFDM / 16QAM

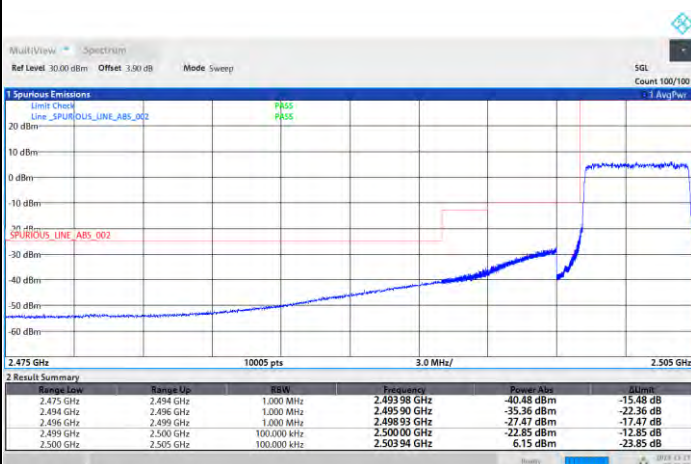
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB





FR1 n7 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB





FR1 n7 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB





FR1 n7 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge



**FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK****Lowest Band Edge / Full RB**

01:33:27 AM 12/21/2024

Highest Band Edge / Full RB

01:37:29 AM 12/21/2024

FR1 n7 / 10MHz / DFT-s-OFDM / QPSK**Lowest Band Edge / Full RB**

01:34:00 AM 12/21/2024

Highest Band Edge / Full RB

01:38:03 AM 12/21/2024



FR1 n7 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



FR1 n7 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





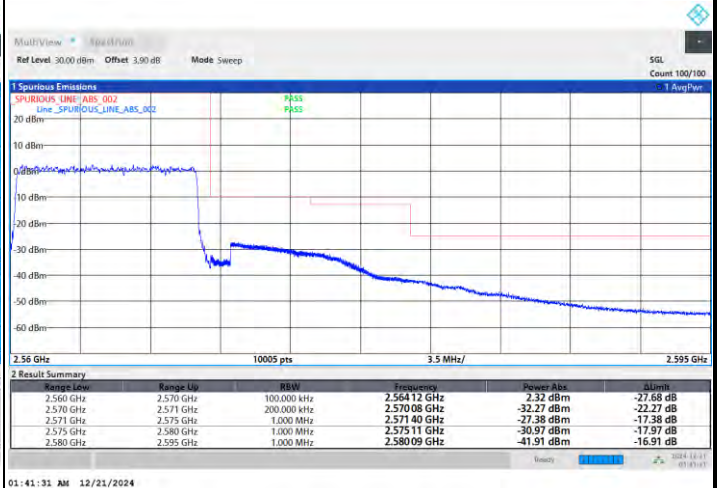
FR1 n7 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB



01:35:43 AM 12/21/2024

Highest Band Edge / Full RB



01:41:31 AM 12/21/2024

FR1 n7 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



01:36:19 AM 12/21/2024

Highest Band Edge



06:39:07 AM 12/21/2024



FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB



01:44:56 AM 12/21/2024

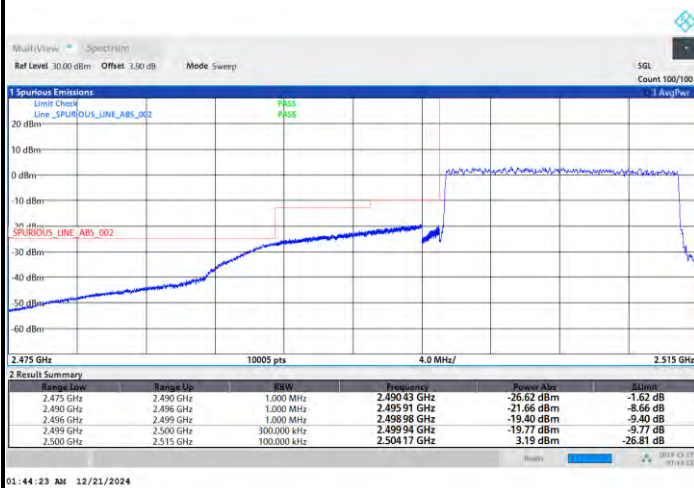
Highest Band Edge / Full RB



01:48:18 AM 12/21/2024

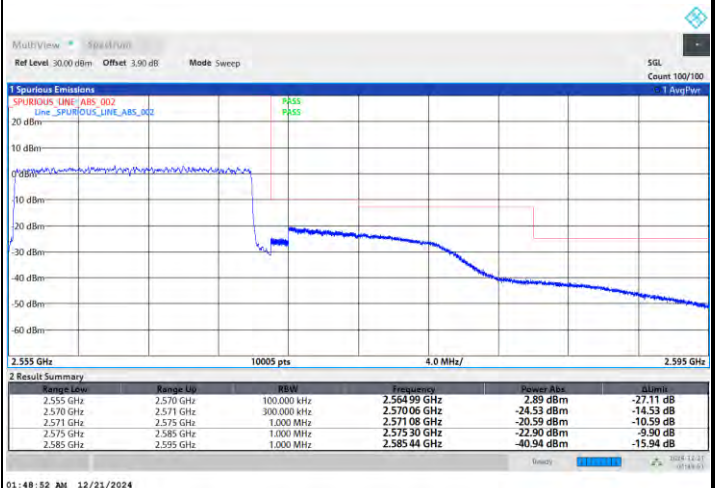
FR1 n7 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



01:44:23 AM 12/21/2024

Highest Band Edge / Full RB



01:48:52 AM 12/21/2024



FR1 n7 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB



01:43:49 AM 12/21/2024

Highest Band Edge / Full RB



01:49:25 AM 12/21/2024

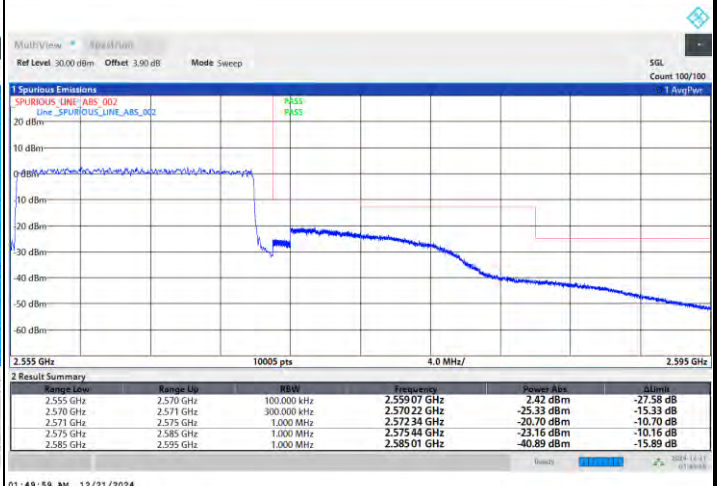
FR1 n7 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



01:43:15 AM 12/21/2024

Highest Band Edge / Full RB



01:49:59 AM 12/21/2024

**FR1 n7 / 15MHz / DFT-s-OFDM / 256QAM****Lowest Band Edge / Full RB**

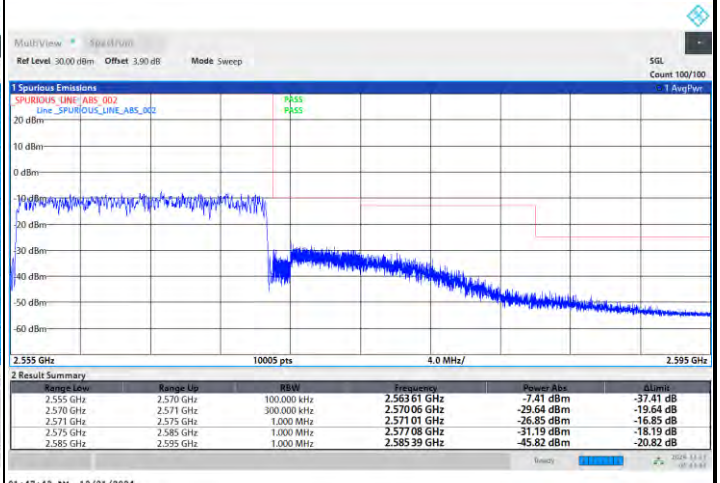
01:42:12 AM 12/21/2024

Highest Band Edge / Full RB

01:50:34 AM 12/21/2024

FR1 n7 / 15MHz / CP OFDM / QPSK / Full RB**Lowest Band Edge**

01:47:08 AM 12/21/2024

Highest Band Edge

01:47:43 AM 12/21/2024



FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB



01:53:30 AM 12/21/2024

Highest Band Edge / Full RB



01:55:16 AM 12/21/2024

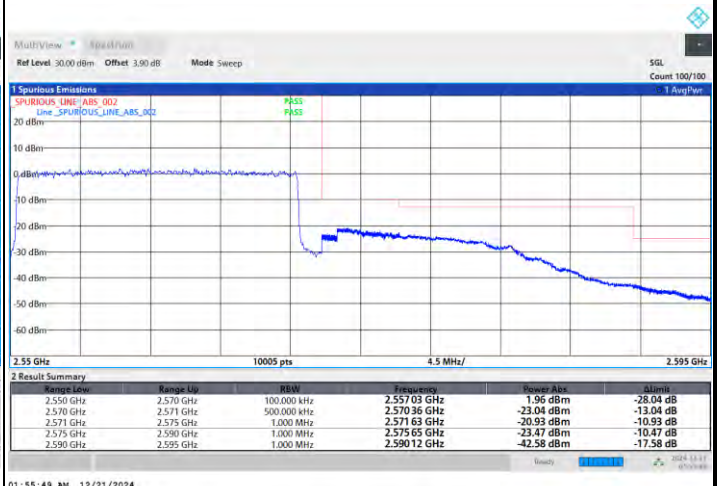
FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



01:52:57 AM 12/21/2024

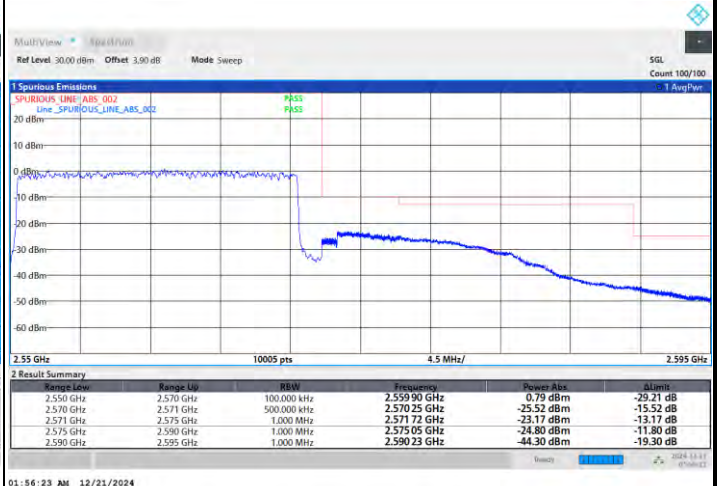
Highest Band Edge / Full RB



01:55:49 AM 12/21/2024

**FR1 n7 / 20MHz / DFT-s-OFDM / 16QAM****Lowest Band Edge / Full RB**

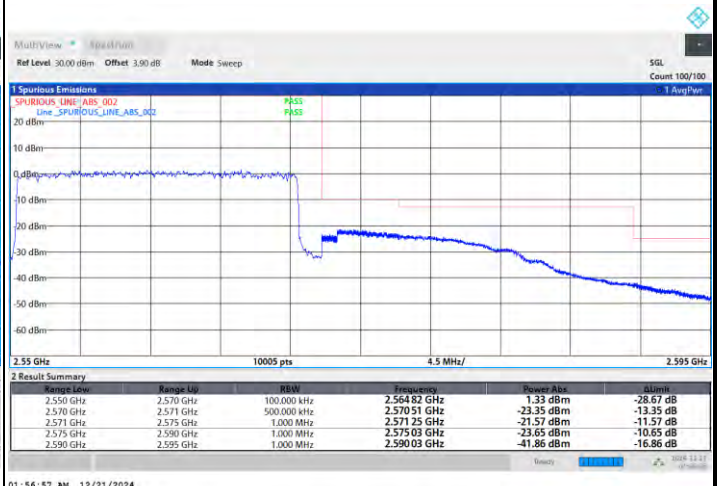
01:52:23 AM 12/21/2024

Highest Band Edge / Full RB

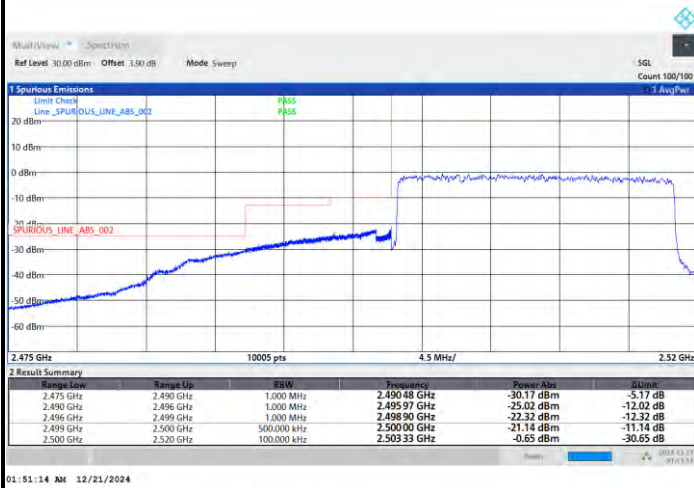
01:56:23 AM 12/21/2024

FR1 n7 / 20MHz / DFT-s-OFDM / 64QAM**Lowest Band Edge / Full RB**

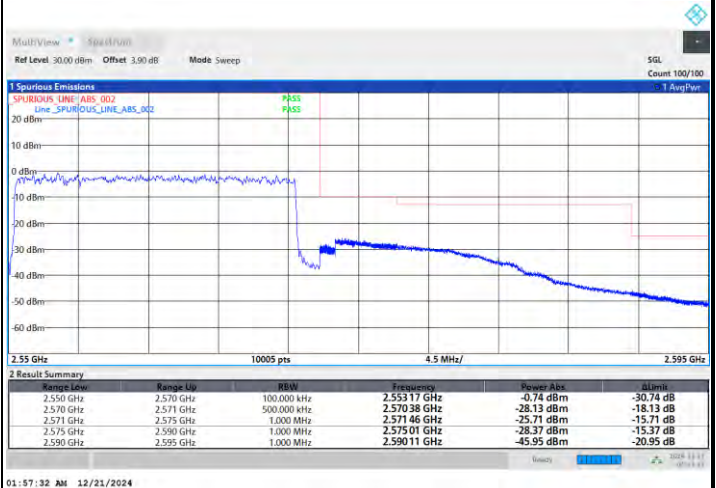
01:51:49 AM 12/21/2024

Highest Band Edge / Full RB

01:56:57 AM 12/21/2024

**FR1 n7 / 20MHz / DFT-s-OFDM / 256QAM****Lowest Band Edge / Full RB**

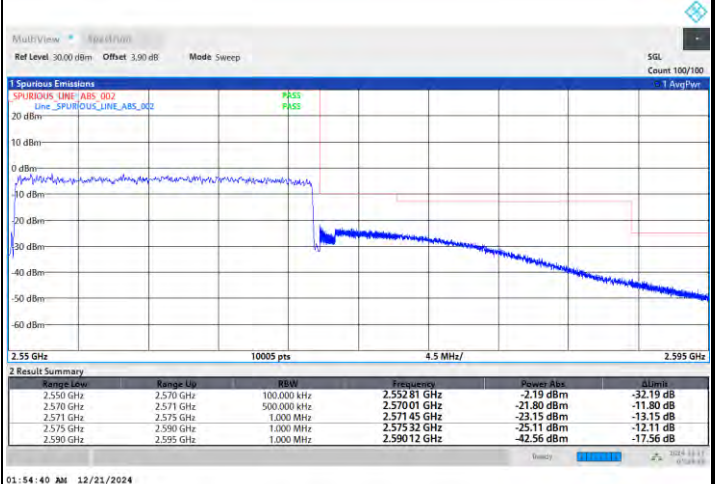
01:51:14 AM 12/21/2024

Highest Band Edge / Full RB

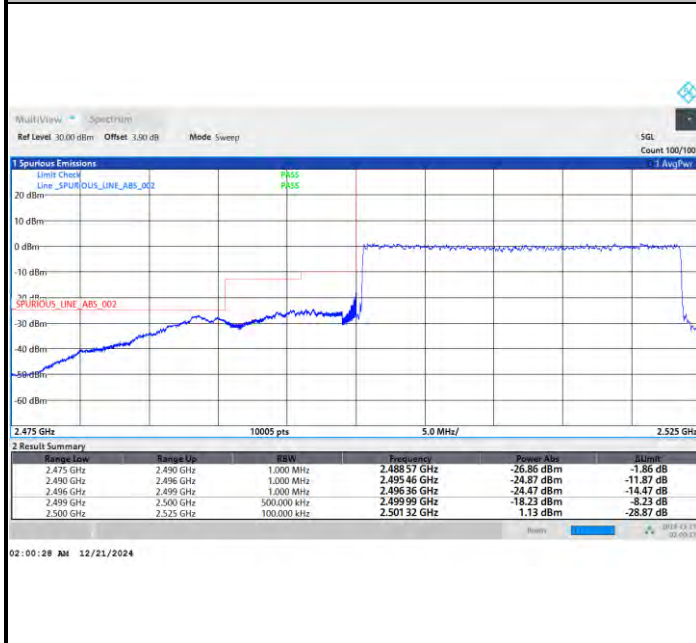
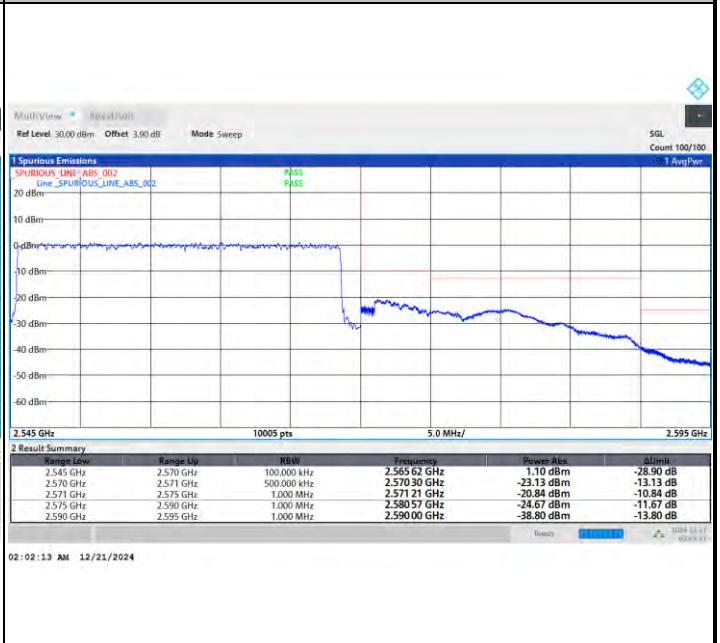
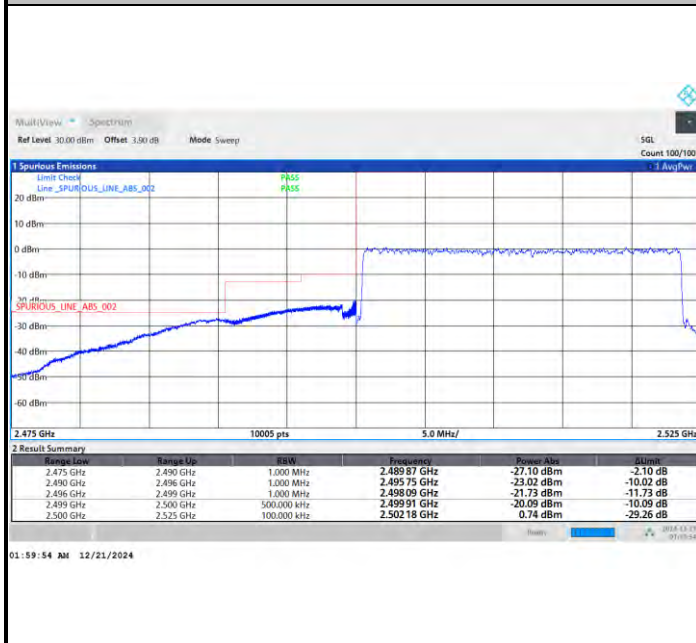
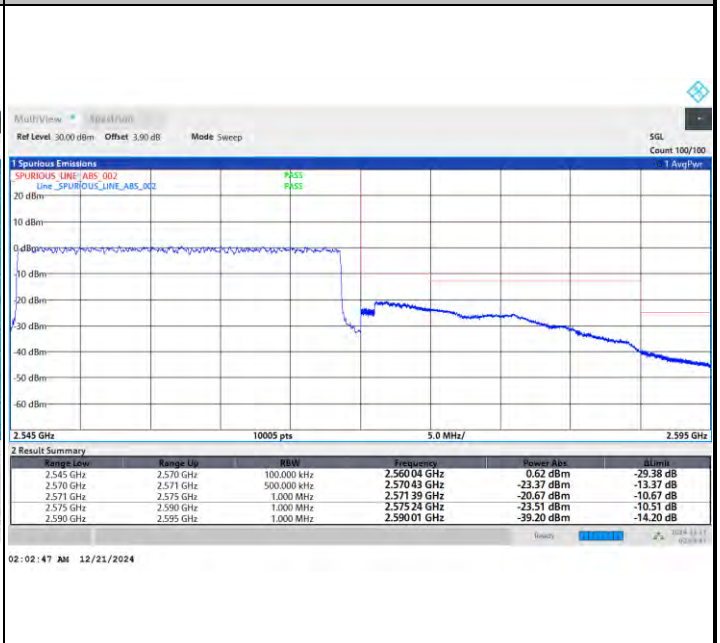
01:57:32 AM 12/21/2024

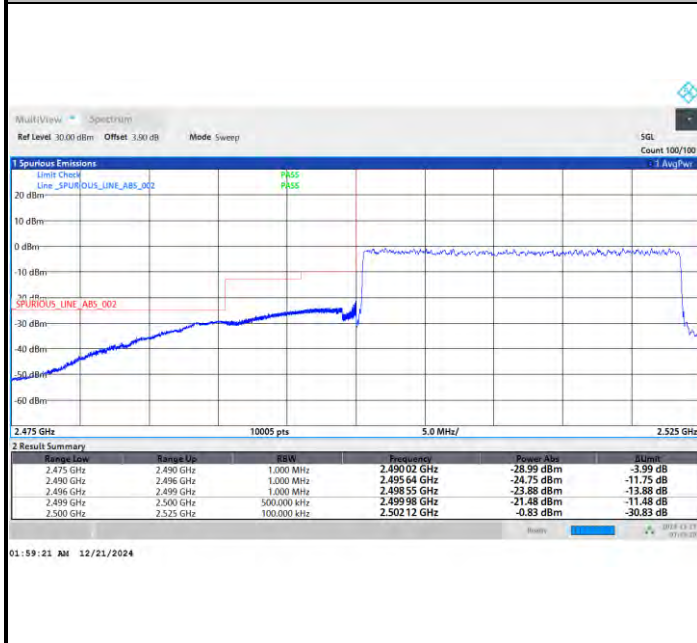
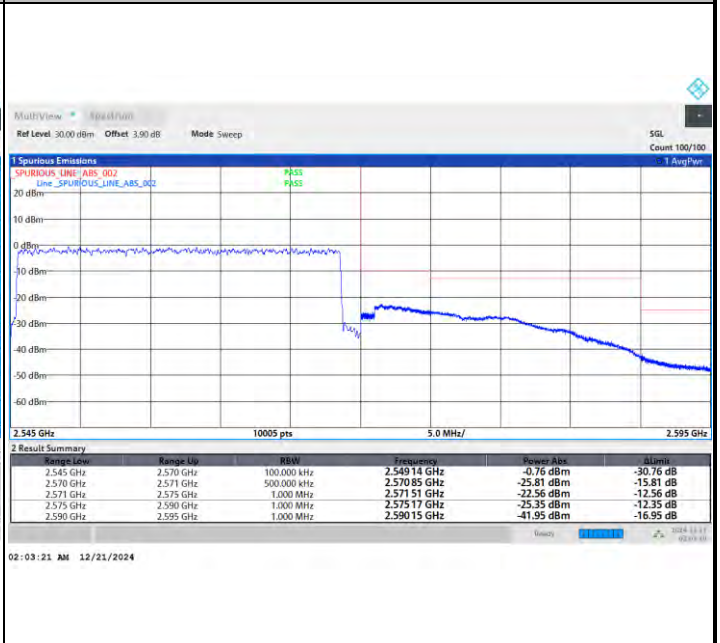
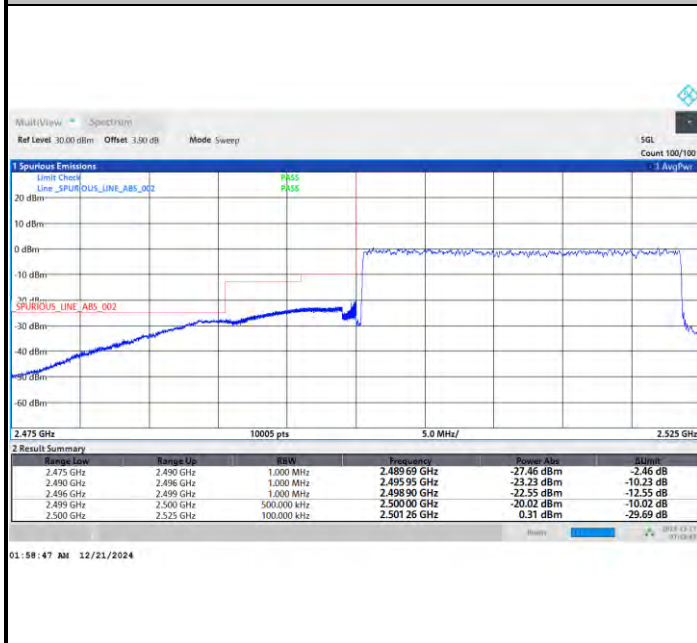
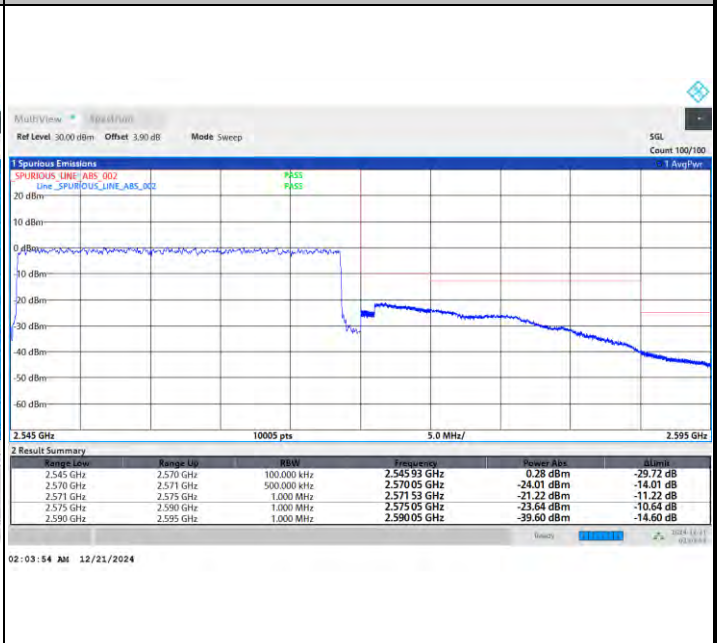
FR1 n7 / 20MHz / CP OFDM / QPSK / Full RB**Lowest Band Edge**

01:54:05 AM 12/21/2024

Highest Band Edge

01:54:40 AM 12/21/2024

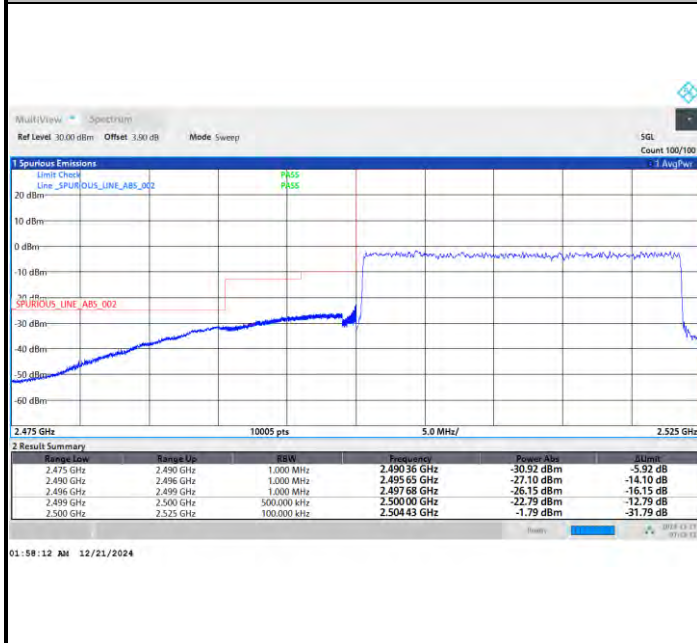
**FR1 n7 / 25MHz / DFT-s-OFDM / PI/2 BPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n7 / 25MHz / DFT-s-OFDM / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

**FR1 n7 / 25MHz / DFT-s-OFDM / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****FR1 n7 / 25MHz / DFT-s-OFDM / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

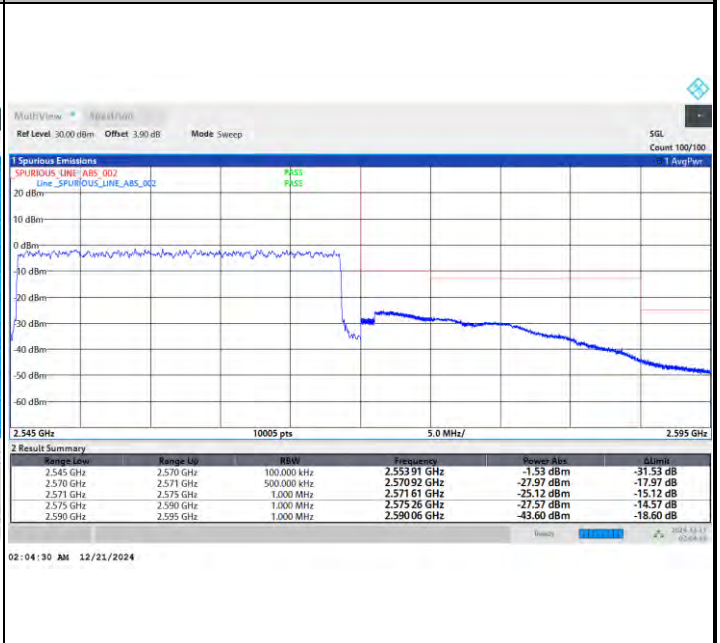


FR1 n7 / 25MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

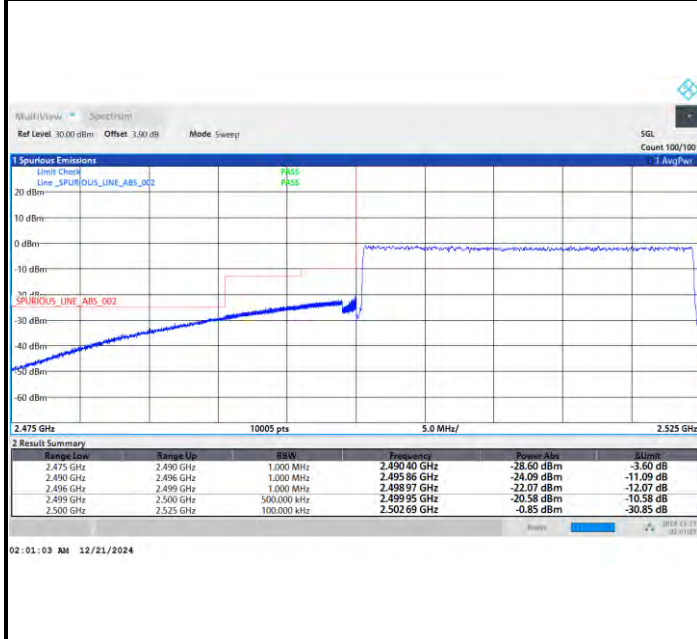


Highest Band Edge / Full RB

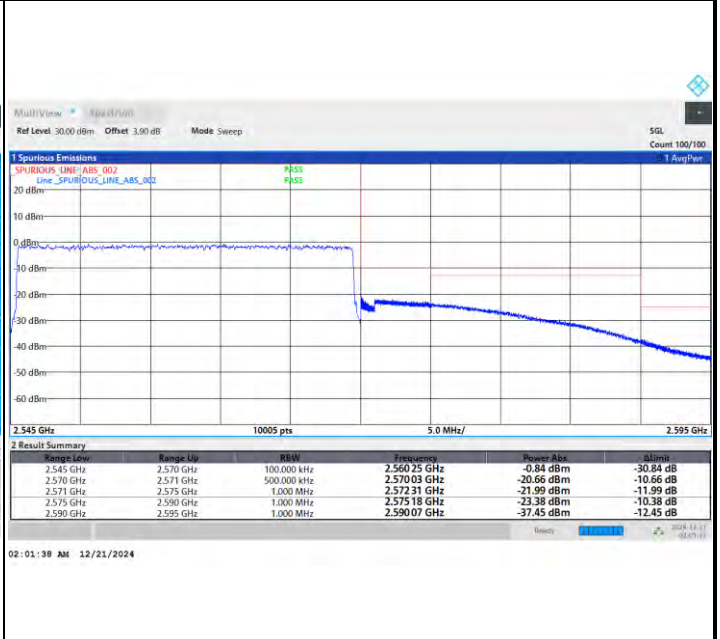


FR1 n7 / 25MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

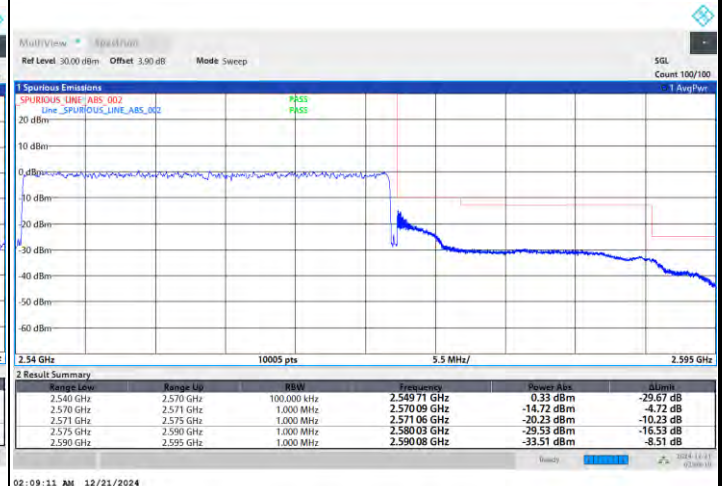


Highest Band Edge

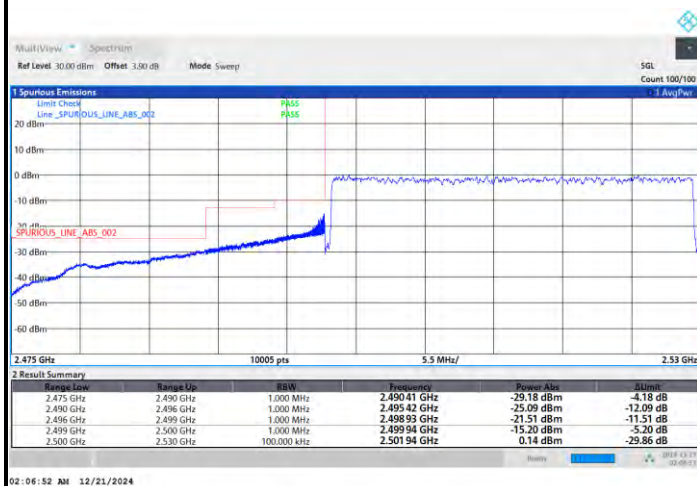


**FR1 n7 / 30MHz / DFT-s-OFDM / PI/2 BPSK****Lowest Band Edge / Full RB**

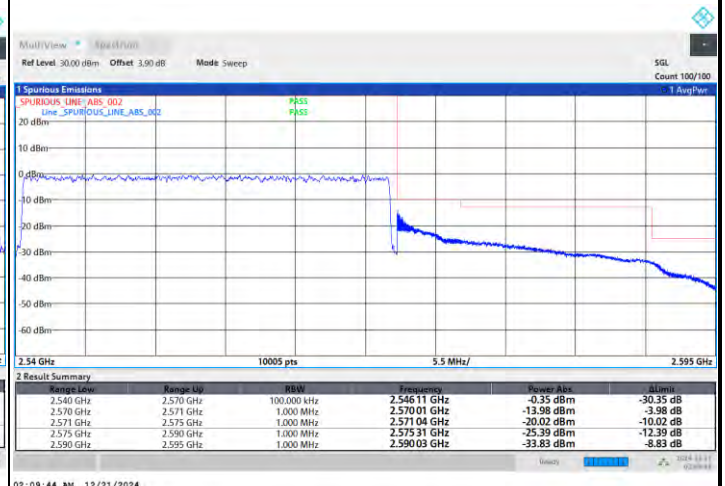
02:07:25 AM 12/21/2024

Highest Band Edge / Full RB

02:09:11 AM 12/21/2024

FR1 n7 / 30MHz / DFT-s-OFDM / QPSK**Lowest Band Edge / Full RB**

02:06:52 AM 12/21/2024

Highest Band Edge / Full RB

02:09:44 AM 12/21/2024



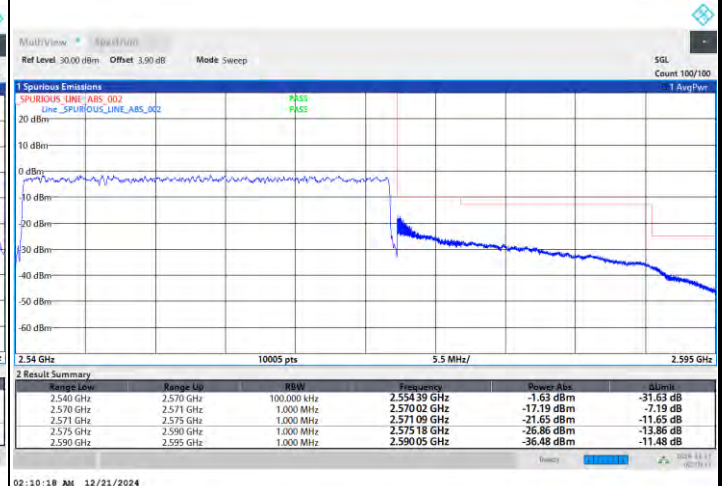
FR1 n7 / 30MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB



02:06:18 AM 12/21/2024

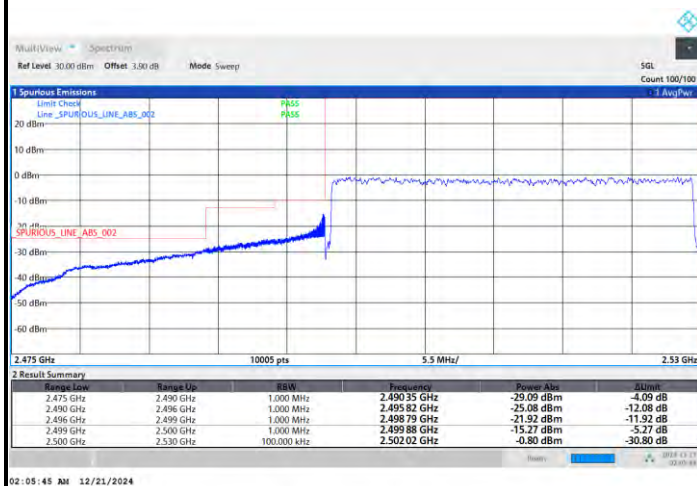
Highest Band Edge / Full RB



02:10:18 AM 12/21/2024

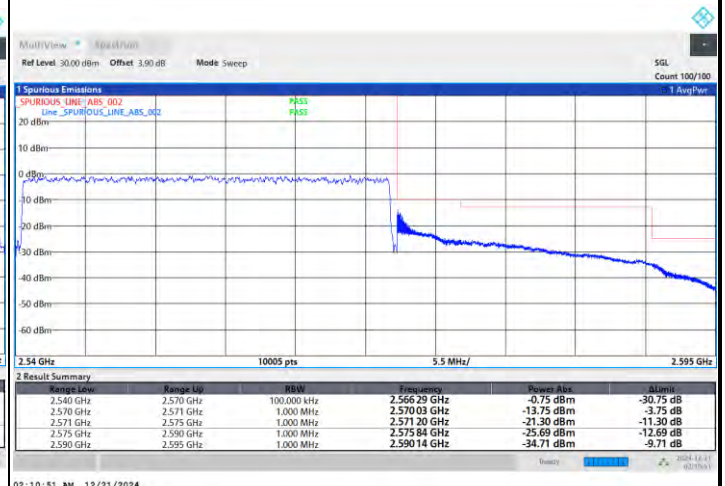
FR1 n7 / 30MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



02:05:45 AM 12/21/2024

Highest Band Edge / Full RB

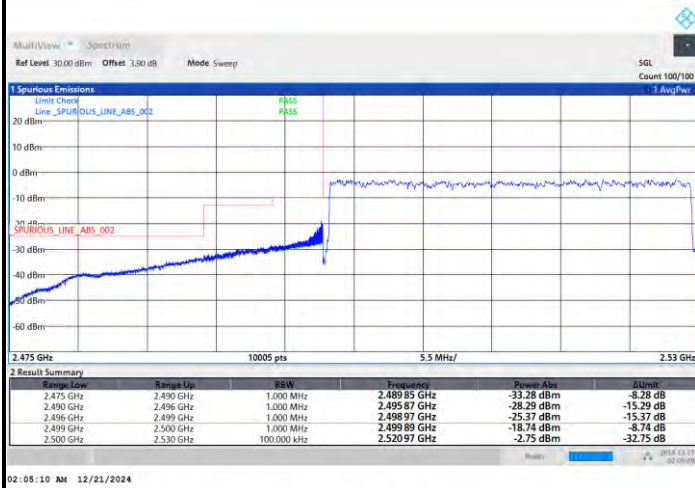


02:10:51 AM 12/21/2024



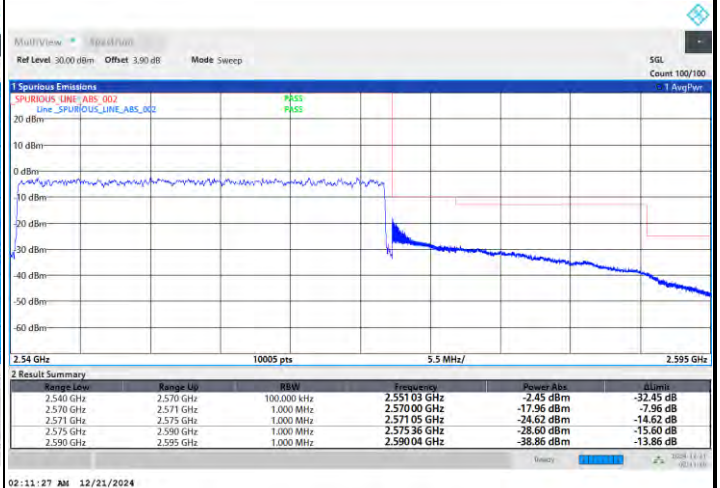
FR1 n7 / 30MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB



02:05:10 AM 12/21/2024

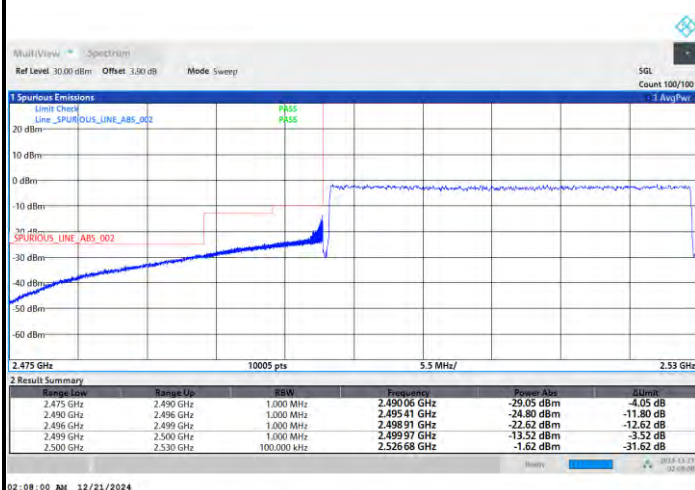
Highest Band Edge / Full RB



02:11:27 AM 12/21/2024

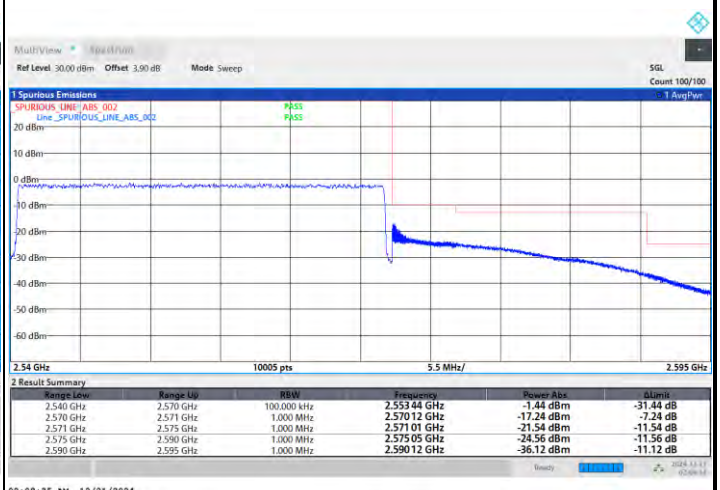
FR1 n7 / 30MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



02:08:00 AM 12/21/2024

Highest Band Edge

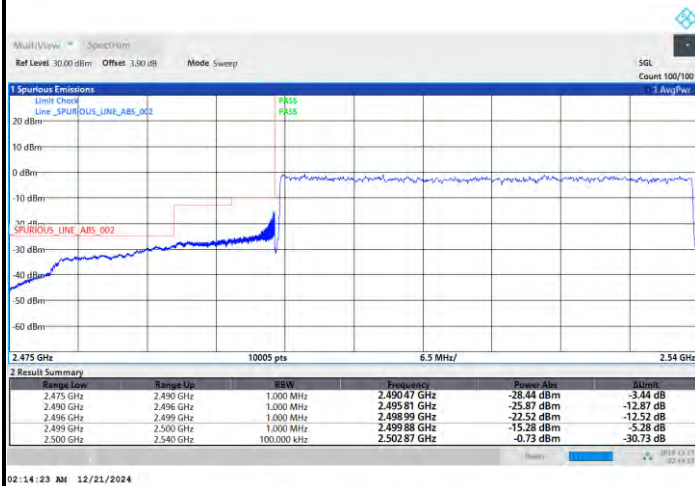


02:08:35 AM 12/21/2024

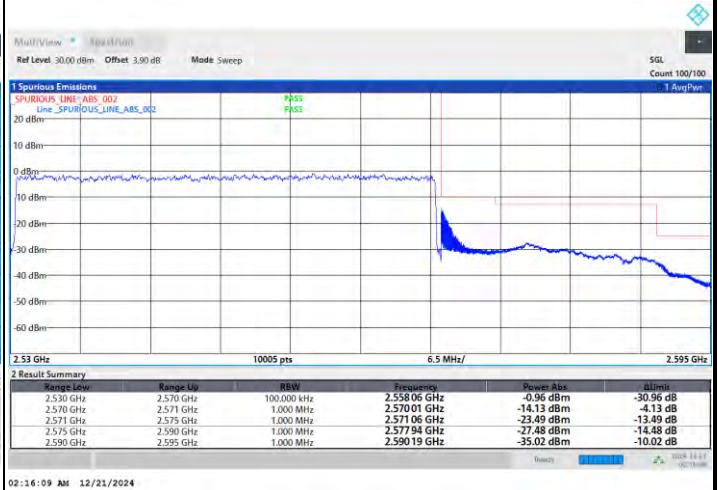


FR1 n7 / 40MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

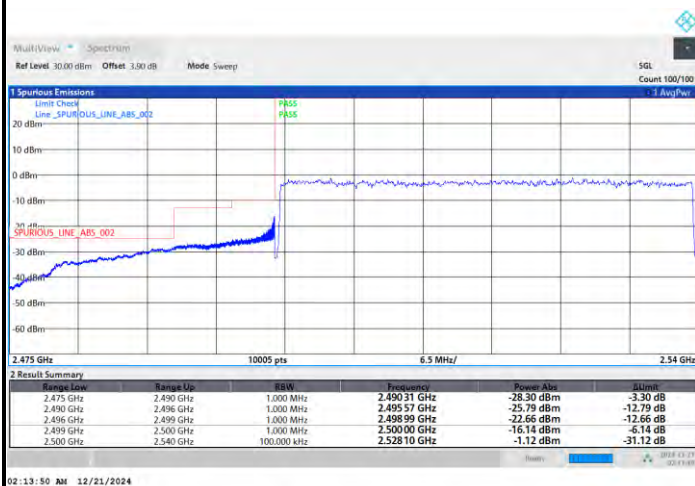


Highest Band Edge / Full RB

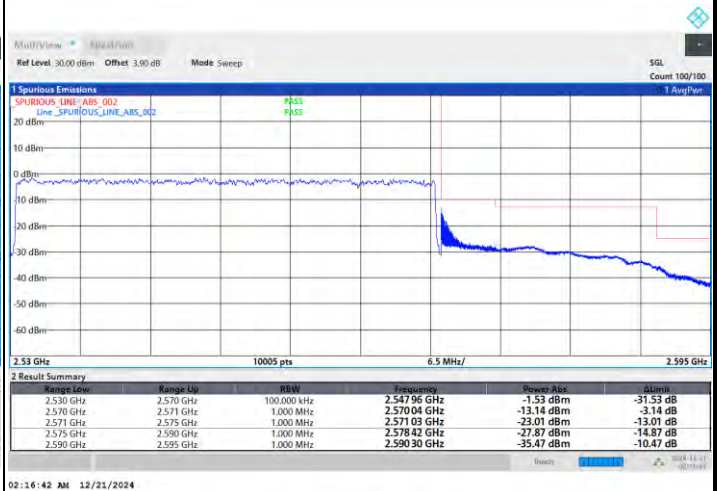


FR1 n7 / 40MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



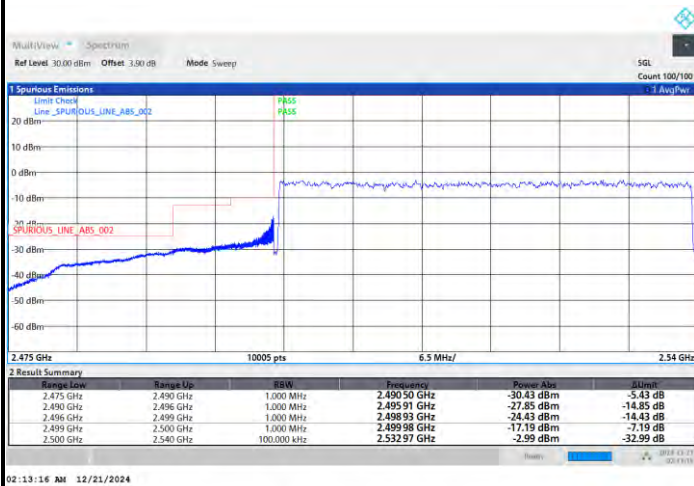
Highest Band Edge / Full RB





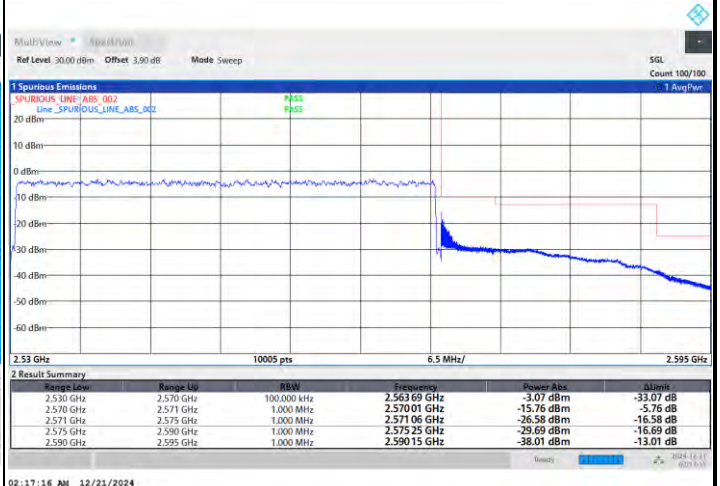
FR1 n7 / 40MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB



02:13:16 AM 12/21/2024

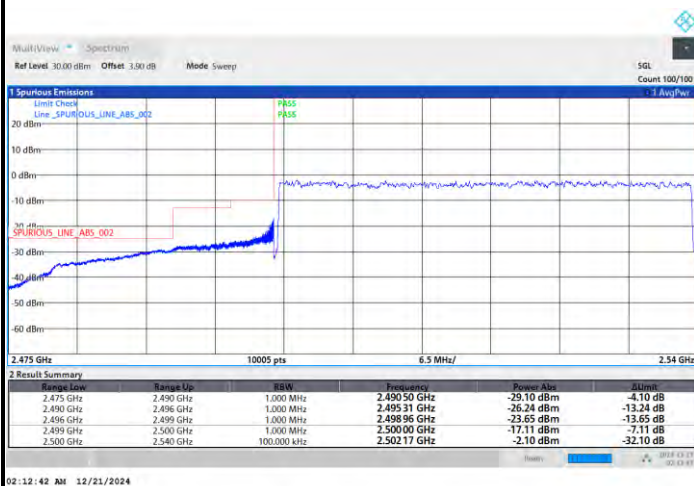
Highest Band Edge / Full RB



02:17:16 AM 12/21/2024

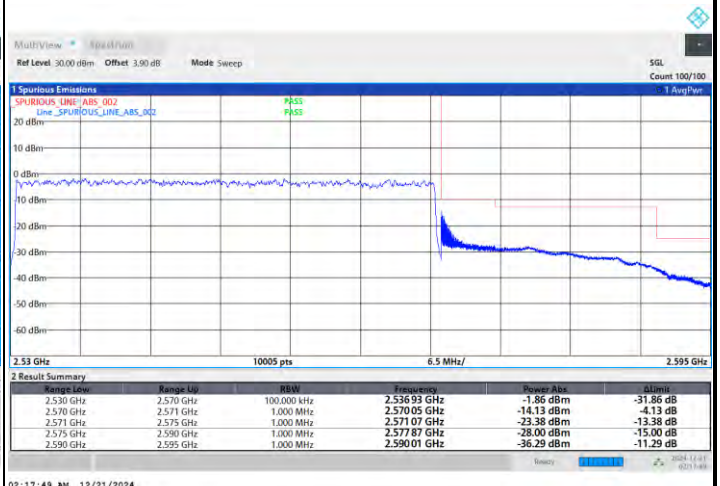
FR1 n7 / 40MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



02:12:42 AM 12/21/2024

Highest Band Edge / Full RB



02:17:49 AM 12/21/2024

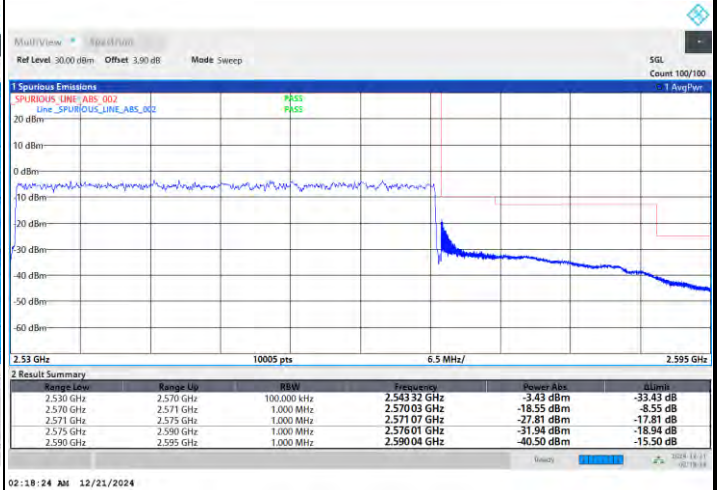


FR1 n7 / 40MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

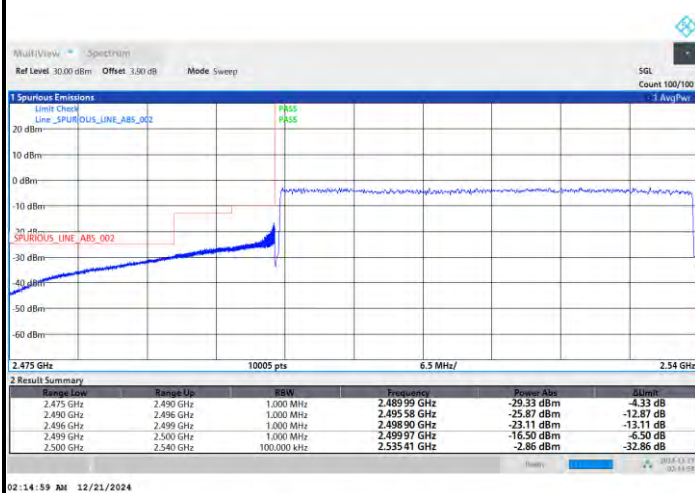


Highest Band Edge / Full RB

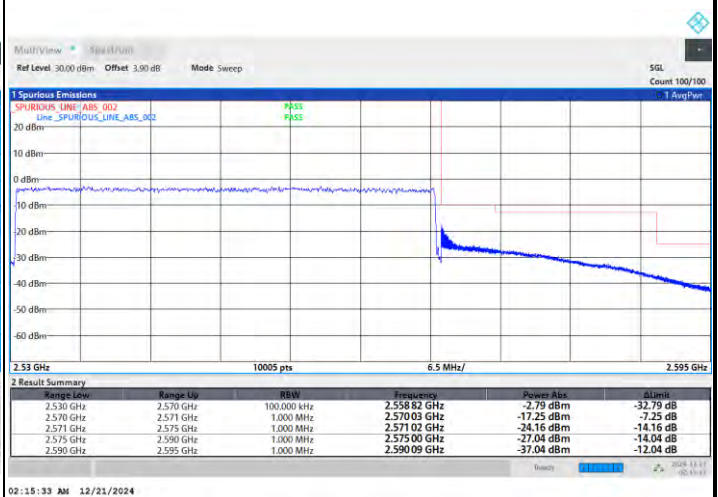


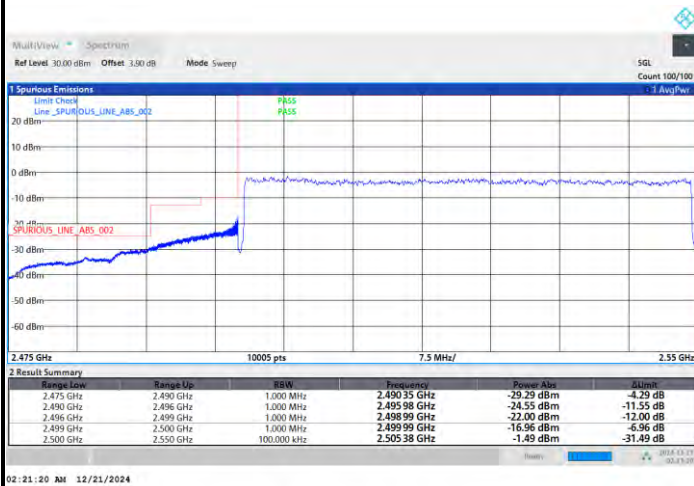
FR1 n7 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge



**FR1 n7 / 50MHz / DFT-s-OFDM / PI/2 BPSK****Lowest Band Edge / Full RB**

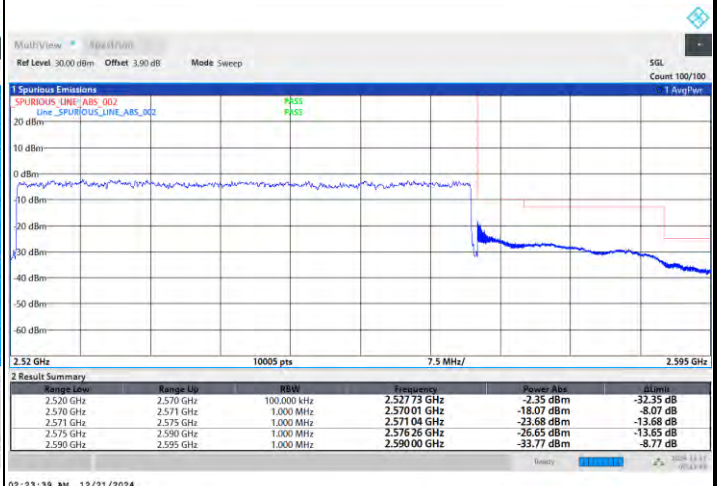
02:21:20 AM 12/21/2024

Highest Band Edge / Full RB

02:23:06 AM 12/21/2024

FR1 n7 / 50MHz / DFT-s-OFDM / QPSK**Lowest Band Edge / Full RB**

02:20:47 AM 12/21/2024

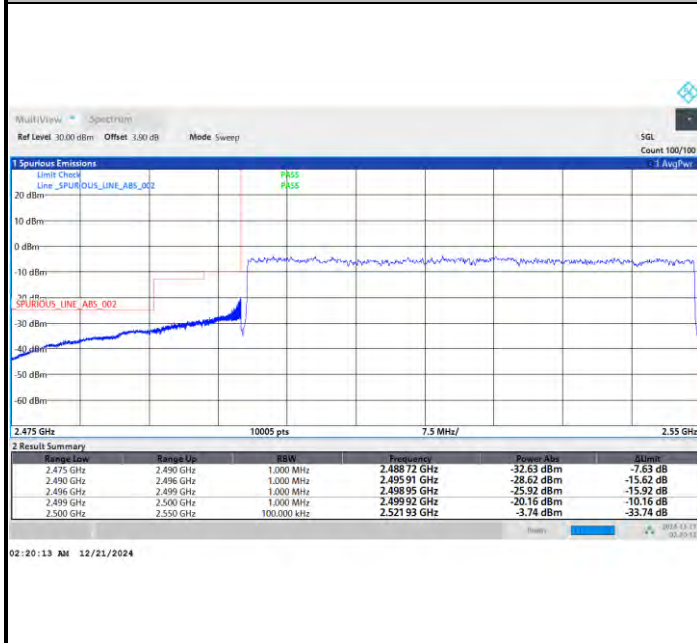
Highest Band Edge / Full RB

02:23:39 AM 12/21/2024

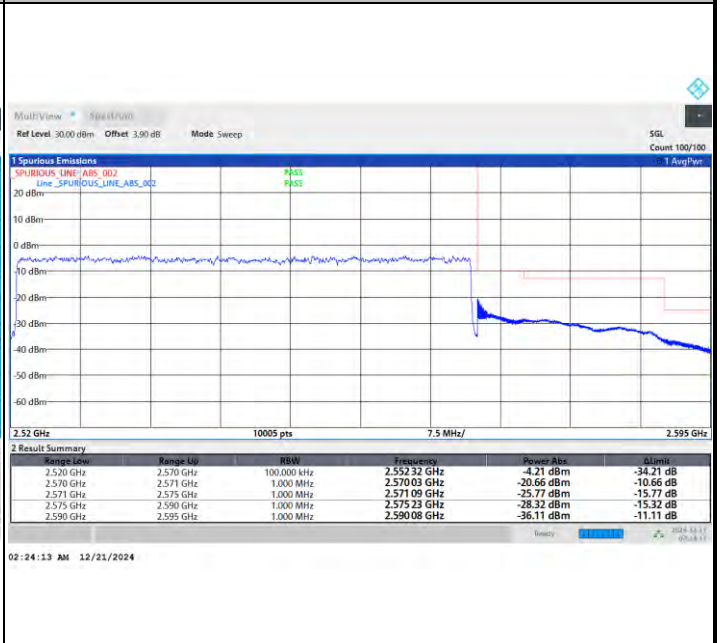


FR1 n7 / 50MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

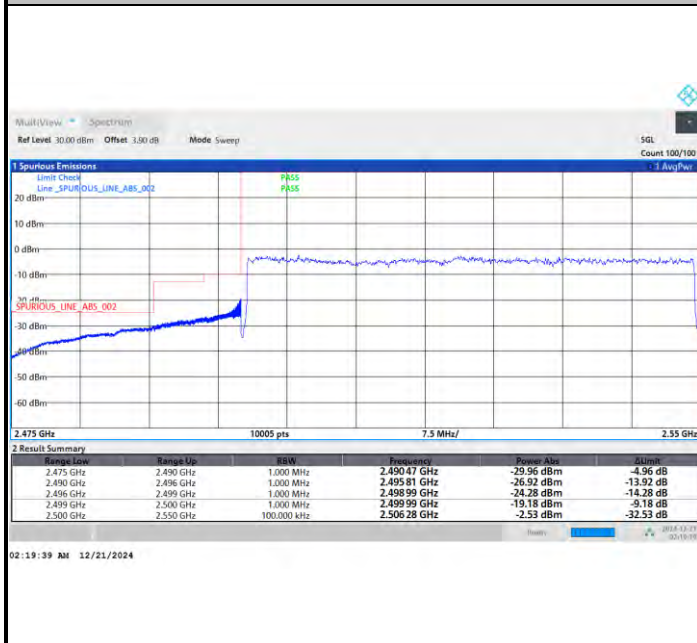


Highest Band Edge / Full RB

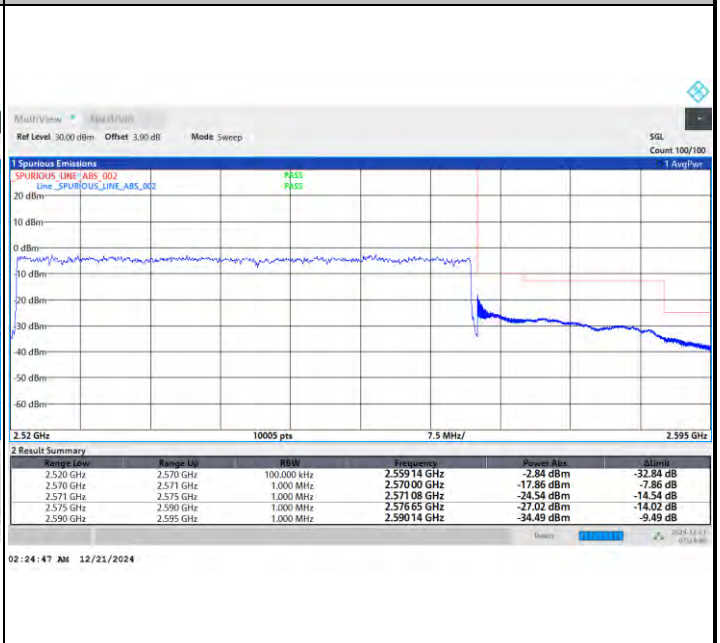


FR1 n7 / 50MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / Full RB



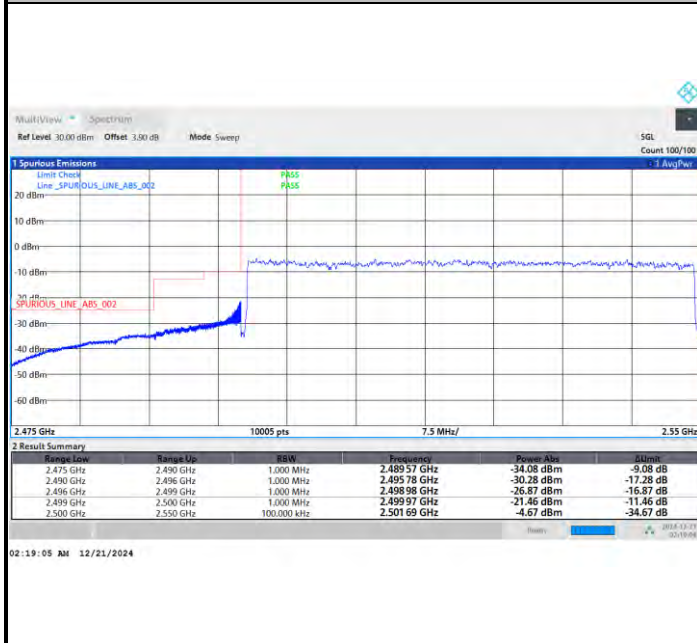
Highest Band Edge / Full RB



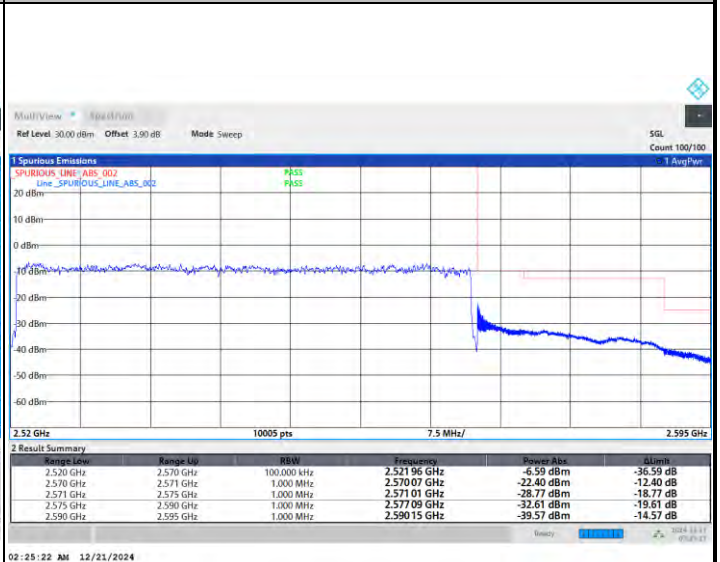


FR1 n7 / 50MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / Full RB

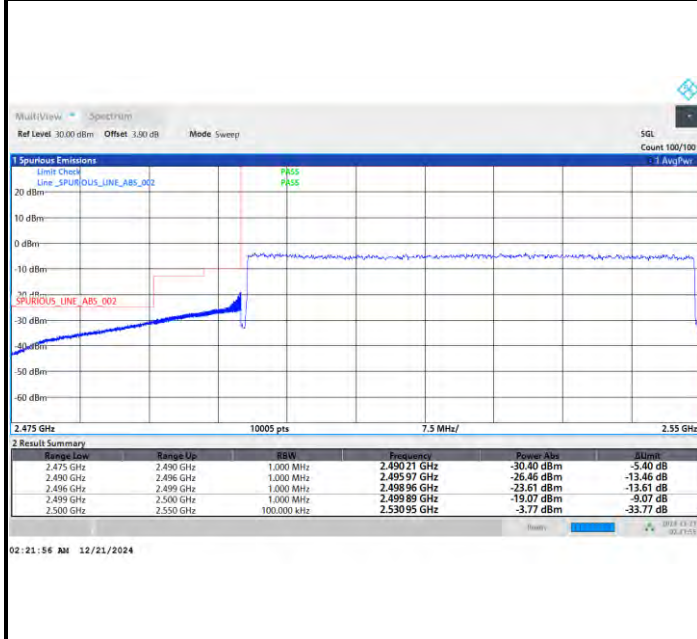


Highest Band Edge / Full RB



FR1 n7 / 50MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

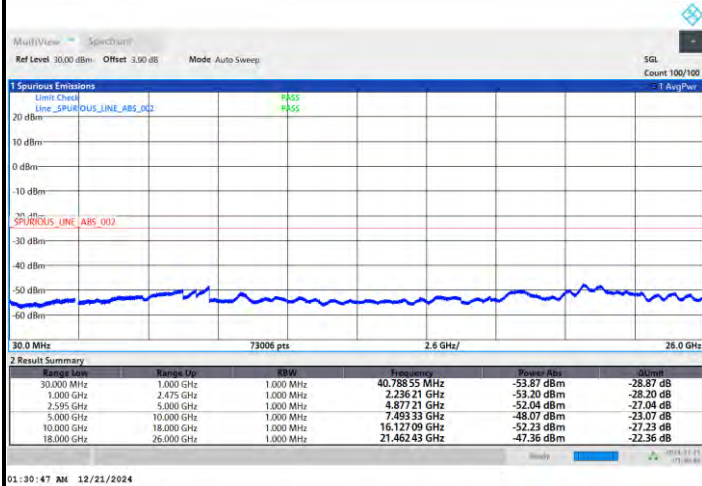




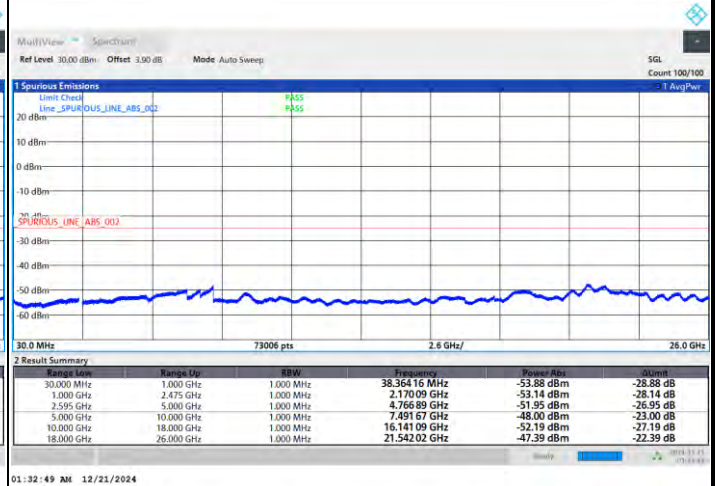
Conducted Spurious Emission

FR1 n7 / 5MHz / DFT-S OFDM / QPSK / 1RB1

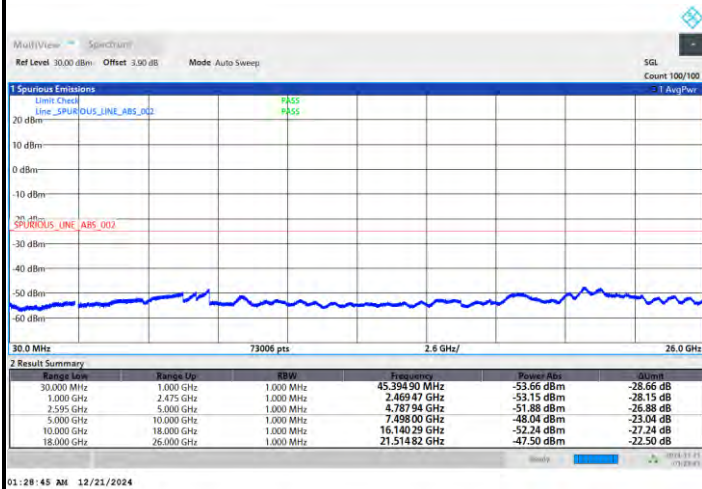
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n7 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0010	
20	Minimum Voltage	0.0019	

Note:

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

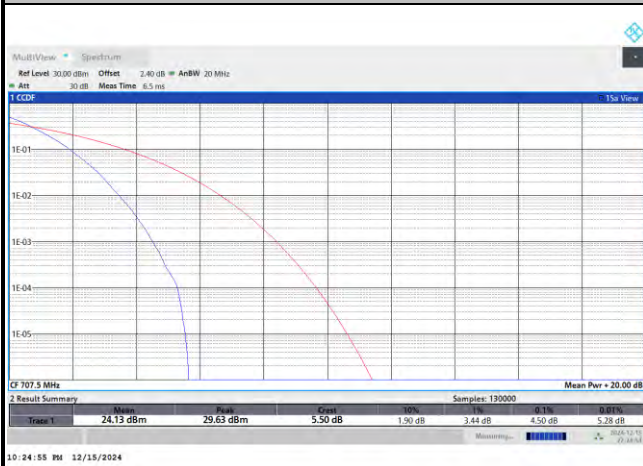
**FR1 n12****Peak-to-Average Ratio**

Mode	FR1 n12 / 15MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.50	5.58	6.34	6.58	PASS
Mode	FR1 n12 / 15MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.44				PASS

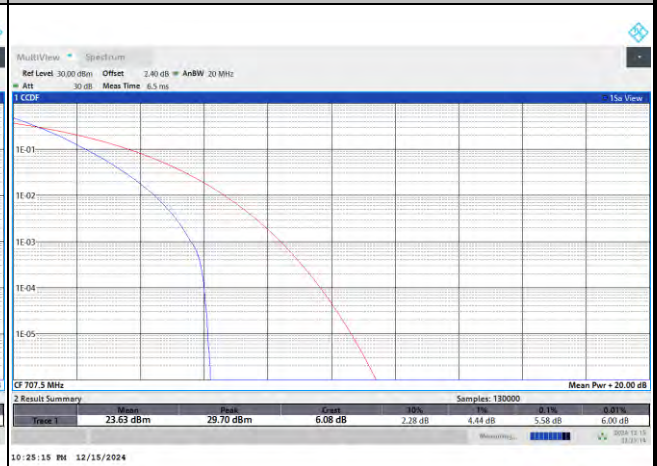


FR1 n12 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

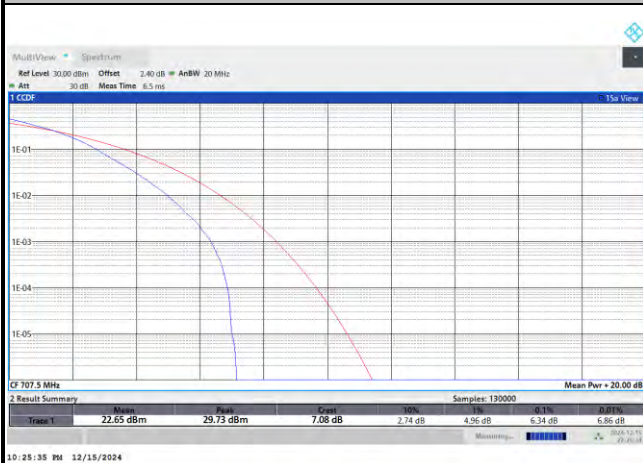
PI/2 BPSK



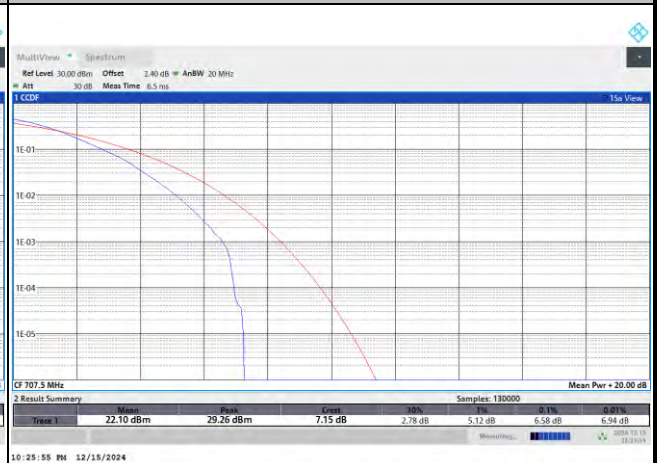
QPSK



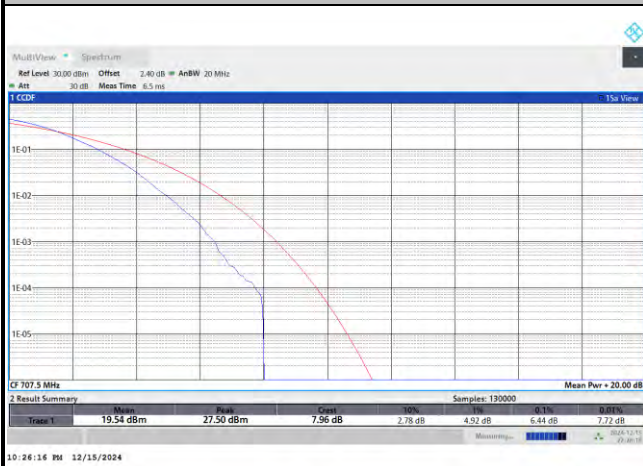
16QAM



64QAM



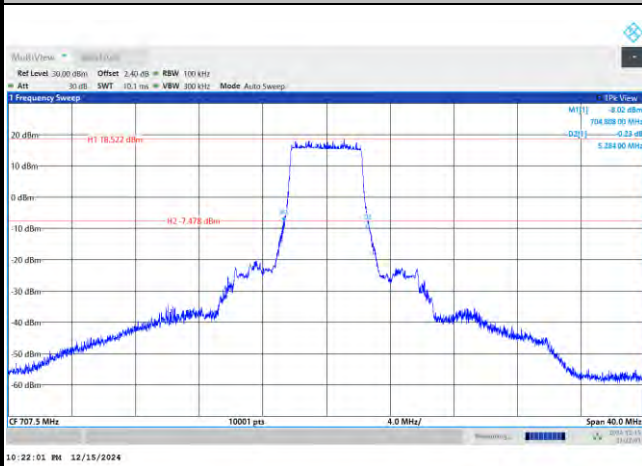
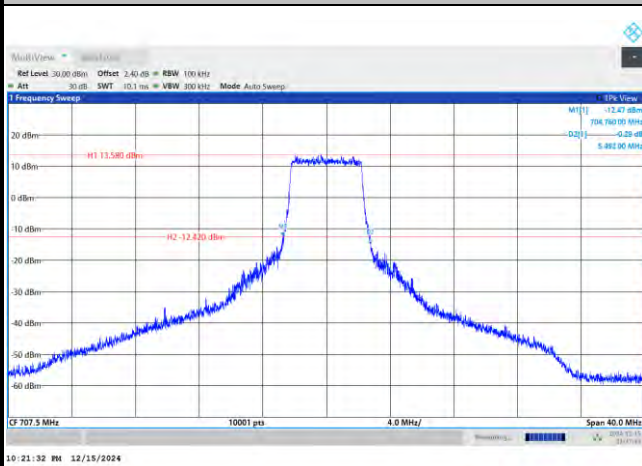
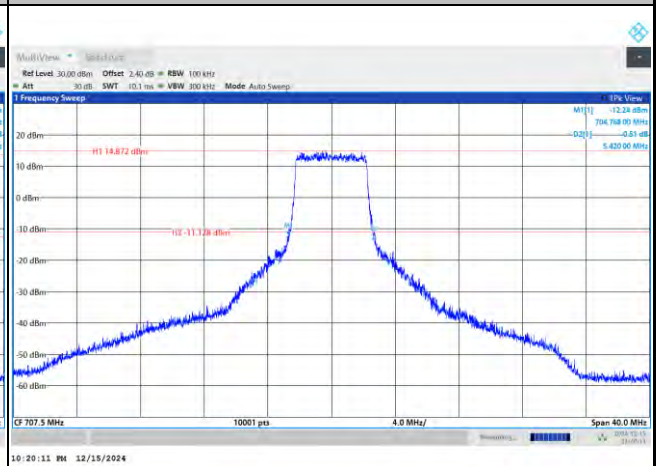
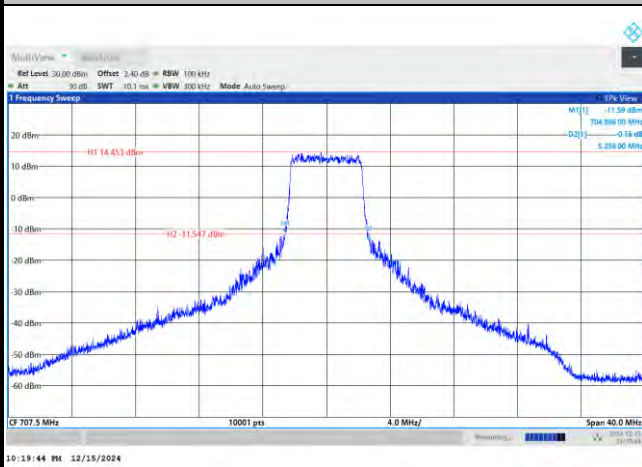
256QAM



**26dB Bandwidth**

Mode	FR1 n12 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	5.28		9.87		14.66			

Mode	FR1 n12 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	5.49	5.42	10.40	10.47	15.42	15.45		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	5.25	5.39	10.41	10.37	15.52	15.40		

FR1 n12 / 5MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n12 / 5MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM
