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1 MAXIMUM OUTPUT POWER

Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.09	18.73	30	-11.27
				1	5	22.79	18.43	30	-11.57
				3	2	23.02	18.66	30	-11.34
				6	0	21.92	17.56	30	-12.44
	20175	1732.5	QPSK	1	0	22.99	18.63	30	-11.37
				1	5	22.69	18.33	30	-11.67
				3	2	22.89	18.53	30	-11.47
				6	0	21.65	17.29	30	-12.71
	20393	1754.3	QPSK	1	0	22.69	18.33	30	-11.67
				1	5	22.77	18.41	30	-11.59
				3	2	22.77	18.41	30	-11.59
				6	0	21.65	17.29	30	-12.71
1.4	19957	1710.7	16QAM	1	0	21.62	17.26	30	-12.74
				1	5	21.65	17.29	30	-12.71
				3	2	21.83	17.47	30	-12.53
				6	0	20.76	16.40	30	-13.6
	20175	1732.5	16QAM	1	0	21.65	17.29	30	-12.71
				1	5	21.64	17.28	30	-12.72
				3	2	21.75	17.39	30	-12.61
				6	0	20.78	16.42	30	-13.58
	20393	1754.3	16QAM	1	0	21.65	17.29	30	-12.71
				1	5	21.75	17.39	30	-12.61
				3	2	21.73	17.37	30	-12.63
				6	0	20.79	16.43	30	-13.57

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.08	18.72	30	-11.28
				1	14	22.95	18.59	30	-11.41
				8	4	22.03	17.67	30	-12.33
				15	0	21.96	17.60	30	-12.4
	20175	1732.5	QPSK	1	0	23.04	18.68	30	-11.32
				1	14	22.89	18.53	30	-11.47
				8	4	21.77	17.41	30	-12.59
				15	0	21.71	17.35	30	-12.65
	20385	1753.5	QPSK	1	0	22.72	18.36	30	-11.64
				1	14	22.73	18.37	30	-11.63
				8	4	21.72	17.36	30	-12.64
				15	0	21.78	17.42	30	-12.58
3	19965	1711.5	16QAM	1	0	21.76	17.40	30	-12.6
				1	14	21.61	17.25	30	-12.75
				8	4	21.17	16.81	30	-13.19
				15	0	20.81	16.45	30	-13.55
	20175	1732.5	16QAM	1	0	21.66	17.30	30	-12.7
				1	14	21.79	17.43	30	-12.57
				8	4	20.92	16.56	30	-13.44
				15	0	20.81	16.45	30	-13.55
	20385	1753.5	16QAM	1	0	21.77	17.41	30	-12.59
				1	14	21.74	17.38	30	-12.62
				8	4	20.68	16.32	30	-13.68
				15	0	20.73	16.37	30	-13.63

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.10	18.74	30	-11.26
				1	24	22.98	18.62	30	-11.38
				12	6	21.89	17.53	30	-12.47
				25	0	21.93	17.57	30	-12.43
	20175	1732.5	QPSK	1	0	22.88	18.52	30	-11.48
				1	24	22.85	18.49	30	-11.51
				12	6	21.74	17.38	30	-12.62
				25	0	21.74	17.38	30	-12.62
	20375	1752.5	QPSK	1	0	22.91	18.55	30	-11.45
				1	24	22.75	18.39	30	-11.61
				12	6	21.77	17.41	30	-12.59
				25	0	21.72	17.36	30	-12.64
5	19975	1712.5	16QAM	1	0	21.74	17.38	30	-12.62
				1	24	21.68	17.32	30	-12.68
				12	6	21.01	16.65	30	-13.35
				25	0	21.12	16.76	30	-13.24
	20175	1732.5	16QAM	1	0	21.77	17.41	30	-12.59
				1	24	21.69	17.33	30	-12.67
				12	6	20.82	16.46	30	-13.54
				25	0	20.73	16.37	30	-13.63
	20375	1752.5	16QAM	1	0	21.73	17.37	30	-12.63
				1	24	21.64	17.28	30	-12.72
				12	6	20.89	16.53	30	-13.47
				25	0	20.78	16.42	30	-13.58

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.13	18.77	30	-11.23
				1	49	23.05	18.69	30	-11.31
				25	12	22.01	17.65	30	-12.35
				50	0	21.95	17.59	30	-12.41
	20175	1732.5	QPSK	1	0	23.03	18.67	30	-11.33
				1	49	22.84	18.48	30	-11.52
				25	12	21.75	17.39	30	-12.61
				50	0	21.63	17.27	30	-12.73
	20350	1750	QPSK	1	0	23.11	18.75	30	-11.25
				1	49	22.78	18.42	30	-11.58
				25	12	21.94	17.58	30	-12.42
				50	0	21.87	17.51	30	-12.49
10	20000	1715	16QAM	1	0	21.78	17.42	30	-12.58
				1	49	21.64	17.28	30	-12.72
				25	12	21.08	16.72	30	-13.28
				50	0	21.11	16.75	30	-13.25
	20175	1732.5	16QAM	1	0	21.79	17.43	30	-12.57
				1	49	21.75	17.39	30	-12.61
				25	12	20.97	16.61	30	-13.39
				50	0	20.81	16.45	30	-13.55
	20350	1750	16QAM	1	0	21.78	17.42	30	-12.58
				1	49	21.65	17.29	30	-12.71
				25	12	21.02	16.66	30	-13.34
				50	0	21.05	16.69	30	-13.31

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.24	18.88	30	-11.12
				1	74	23.15	18.79	30	-11.21
				36	18	21.99	17.63	30	-12.37
				75	0	22.03	17.67	30	-12.33
	20175	1732.5	QPSK	1	0	23.05	18.69	30	-11.31
				1	74	22.90	18.54	30	-11.46
				36	18	21.70	17.34	30	-12.66
				75	0	21.66	17.30	30	-12.7
	20325	1747.5	QPSK	1	0	23.04	18.68	30	-11.32
				1	74	22.74	18.38	30	-11.62
				36	18	22.07	17.71	30	-12.29
				75	0	21.94	17.58	30	-12.42
15	20025	1717.5	16QAM	1	0	21.75	17.39	30	-12.61
				1	74	21.67	17.31	30	-12.69
				36	18	21.09	16.73	30	-13.27
				75	0	21.19	16.83	30	-13.17
	20175	1732.5	16QAM	1	0	21.81	17.45	30	-12.55
				1	74	21.75	17.39	30	-12.61
				36	18	20.59	16.23	30	-13.77
				75	0	20.75	16.39	30	-13.61
	20325	1747.5	16QAM	1	0	21.82	17.46	30	-12.54
				1	74	21.76	17.40	30	-12.6
				36	18	21.16	16.80	30	-13.2
				75	0	20.93	16.57	30	-13.43

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Antenna gain (dBi)		-4.36							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	22.99	18.63	30	-11.37
				1	99	22.81	18.45	30	-11.55
				50	25	22.03	17.67	30	-12.33
				100	0	22.00	17.64	30	-12.36
	20175	1732.5	QPSK	1	0	23.00	18.64	30	-11.36
				1	99	22.73	18.37	30	-11.63
				50	25	21.74	17.38	30	-12.62
				100	0	21.78	17.42	30	-12.58
	20300	1745	QPSK	1	0	22.98	18.62	30	-11.38
				1	99	22.80	18.44	30	-11.56
				50	25	22.04	17.68	30	-12.32
				100	0	21.90	17.54	30	-12.46
20	20050	1720	16QAM	1	0	21.70	17.34	30	-12.66
				1	99	21.78	17.42	30	-12.58
				50	25	21.20	16.84	30	-13.16
				100	0	21.12	16.76	30	-13.24
	20175	1732.5	16QAM	1	0	21.68	17.32	30	-12.68
				1	99	21.72	17.36	30	-12.64
				50	25	20.66	16.30	30	-13.7
				100	0	20.64	16.28	30	-13.72
	20300	1745	16QAM	1	0	21.65	17.29	30	-12.71
				1	99	21.70	17.34	30	-12.66
				50	25	21.11	16.75	30	-13.25
				100	0	20.85	16.49	30	-13.51

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Antenna gain (dBi)		-9.35								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.78	14.43	12.28	34.77	-22.49
				1	24	23.70	14.35	12.20	34.77	-22.57
				12	6	22.62	13.27	11.12	34.77	-23.65
				25	0	22.71	13.36	11.21	34.77	-23.56
	23230	782	QPSK	1	0	23.66	14.31	12.16	34.77	-22.61
				1	24	23.69	14.34	12.19	34.77	-22.58
				12	6	22.60	13.25	11.10	34.77	-23.67
				25	0	22.61	13.26	11.11	34.77	-23.66
	23255	784.5	QPSK	1	0	23.74	14.39	12.24	34.77	-22.53
				1	24	23.75	14.40	12.25	34.77	-22.52
				12	6	22.74	13.39	11.24	34.77	-23.53
				25	0	22.75	13.40	11.25	34.77	-23.52
5	23205	779.5	16QAM	1	0	22.71	13.36	11.21	34.77	-23.56
				1	24	22.62	13.27	11.12	34.77	-23.65
				12	6	21.64	12.29	10.14	34.77	-24.63
				25	0	21.70	12.35	10.20	34.77	-24.57
	23230	782	16QAM	1	0	22.71	13.36	11.21	34.77	-23.56
				1	24	22.77	13.42	11.27	34.77	-23.50
				12	6	21.67	12.32	10.17	34.77	-24.60
				25	0	21.68	12.33	10.18	34.77	-24.59
	23255	784.5	16QAM	1	0	22.80	13.45	11.30	34.77	-23.47
				1	24	22.78	13.43	11.28	34.77	-23.49
				12	6	21.73	12.38	10.23	34.77	-24.54
				25	0	21.66	12.31	10.16	34.77	-24.61

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Antenna gain (dBi)		-9.35								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.93	14.58	12.43	34.77	-22.34
				1	49	23.76	14.41	12.26	34.77	-22.51
				25	12	22.61	13.26	11.11	34.77	-23.66
				50	0	22.71	13.36	11.21	34.77	-23.56
10	23230	782	16QAM	1	0	22.72	13.37	11.22	34.77	-23.55
				1	49	22.73	13.38	11.23	34.77	-23.54
				25	12	21.60	12.25	10.10	34.77	-24.67
				50	0	21.66	12.31	10.16	34.77	-24.61

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2 OCCUPIED BANDWIDTH MEASUREMENT

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0887	1.0897	1.278	1.311
1732.5	20175	1.0899	1.0893	1.278	1.310
1754.3	20393	1.0889	1.0914	1.282	1.310

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6835	2.6885	2.957	2.970
1732.5	20175	2.6835	2.6893	2.966	2.966
1753.5	20385	2.6872	2.6920	2.956	2.958

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19975	4.4814	4.4829	5.007	4.964
1732.5	20175	4.4812	4.4827	5.014	5.011
1752.5	20375	4.4809	4.4812	5.008	4.992

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9550	8.9278	9.815	9.755
1732.5	20175	8.9512	8.9368	9.424	9.772
1750.0	20350	8.9718	8.9247	9.797	9.826

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.4280	13.4010	14.570	14.670
1732.5	20175	13.4360	13.4140	14.610	14.660
1747.5	20325	13.4230	13.3940	14.590	14.610

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.8560	17.8790	19.360	19.370
1732.5	20175	17.8560	17.8690	19.340	19.380
1745.0	20300	17.8030	17.8280	19.140	19.290

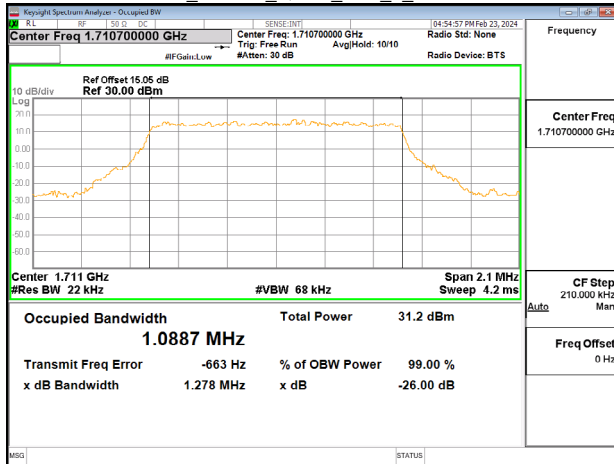
LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.4848	4.4871	4.993	5.015
782.0	23230	4.4773	4.4753	4.950	4.949
784.5	23255	4.4843	4.4841	4.974	4.978

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	8.9595	8.9336	9.718	9.725

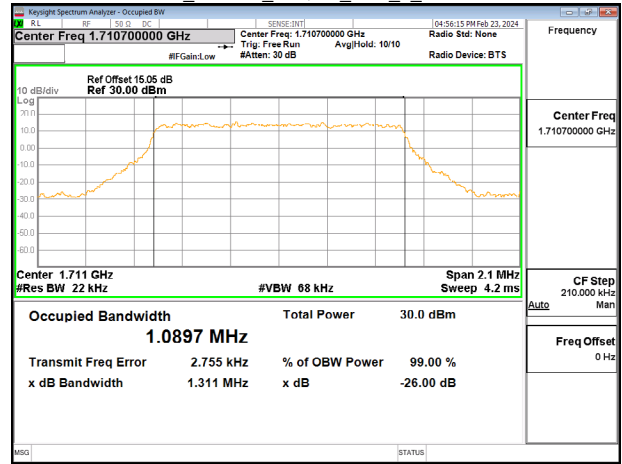
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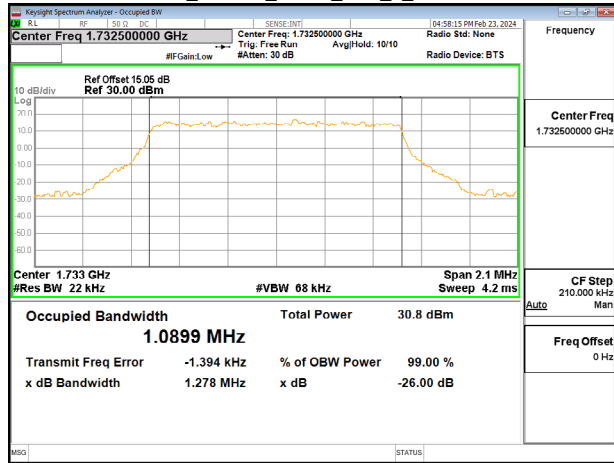
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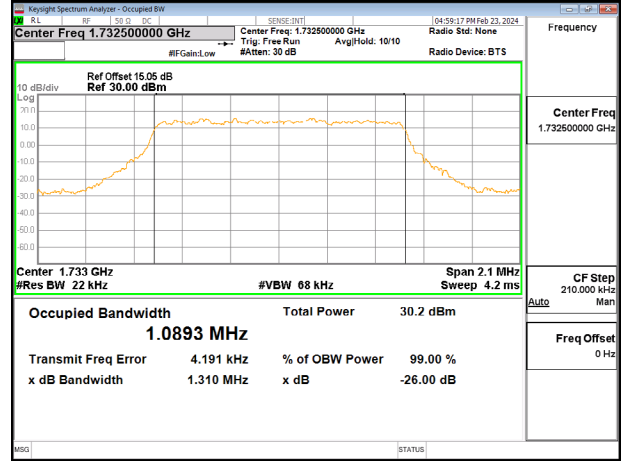
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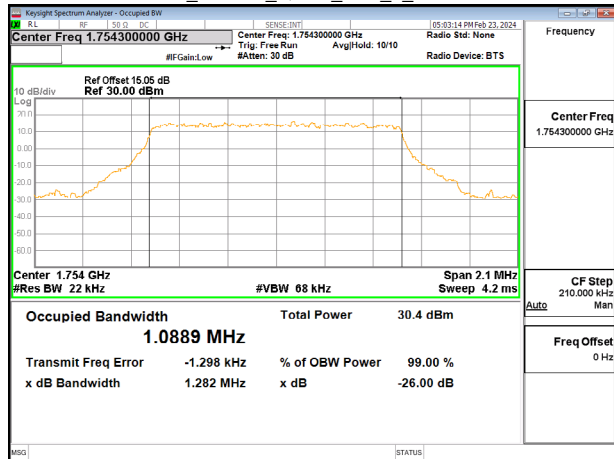
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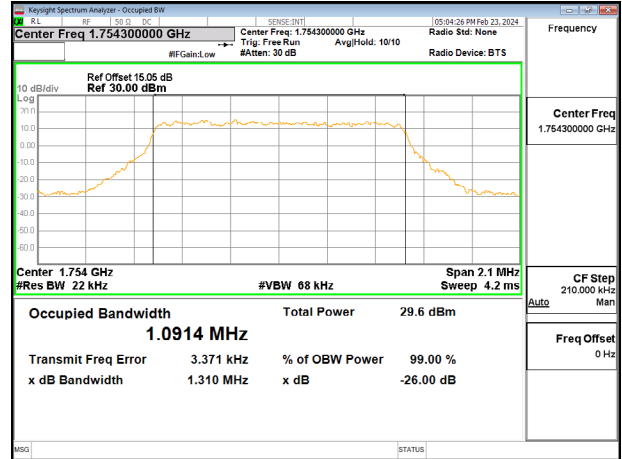
Band4_1.4MHz_16QAM_RB6_0_CH20175



Band4_1.4MHz_QPSK_RB6_0_CH20393



Band4_1.4MHz_16QAM_RB6_0_CH20393

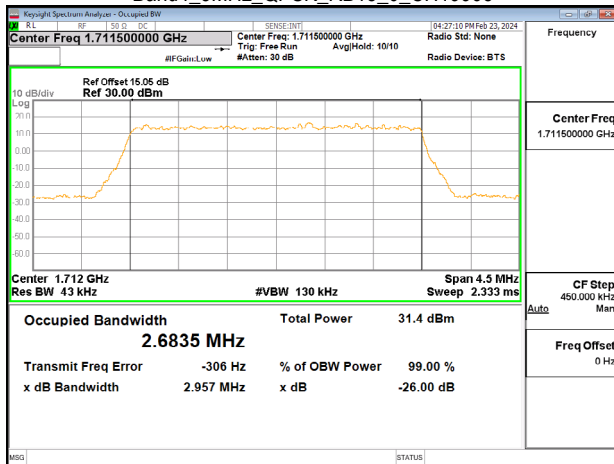


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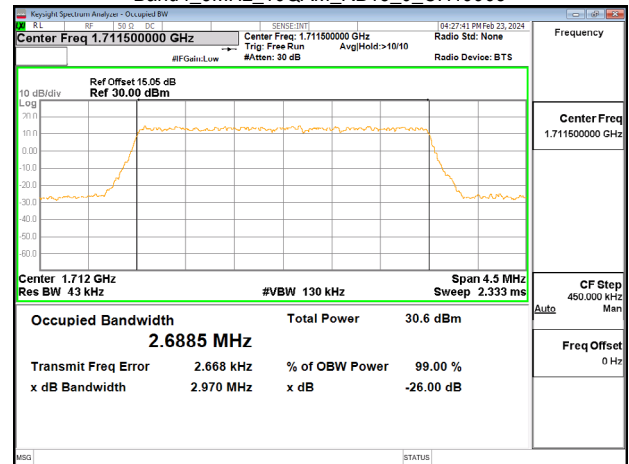
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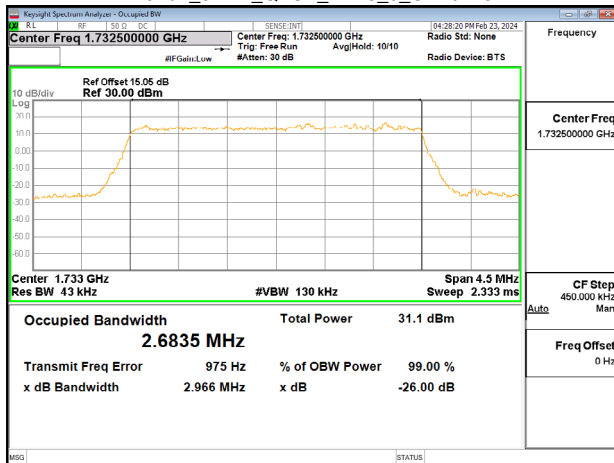
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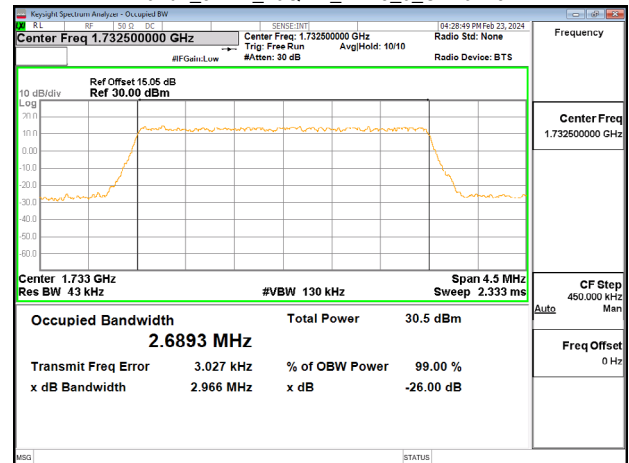
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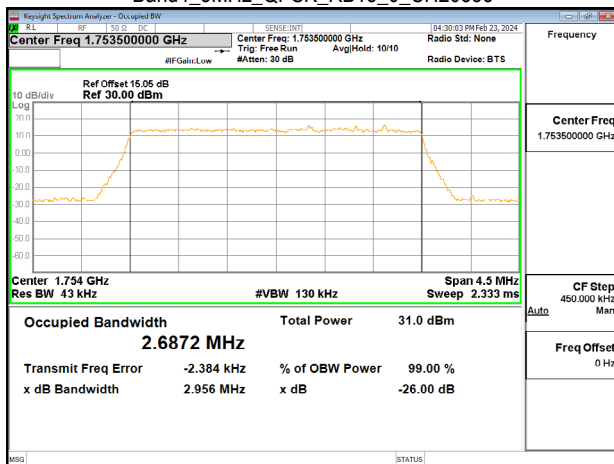
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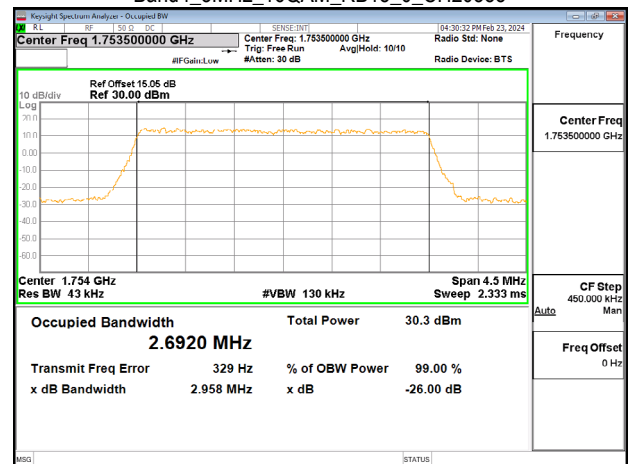
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Band4_3MHz_QPSK_RB15_0_CH20385



Band4_3MHz_16QAM_RB15_0_CH20385

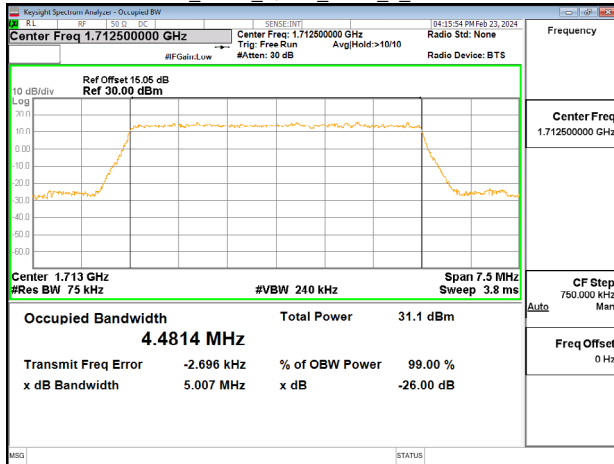


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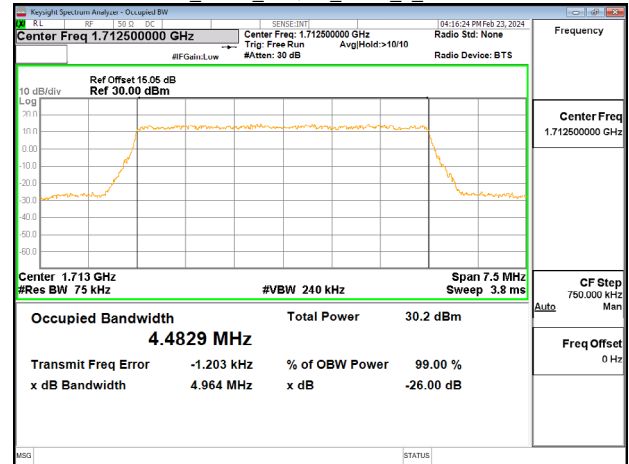
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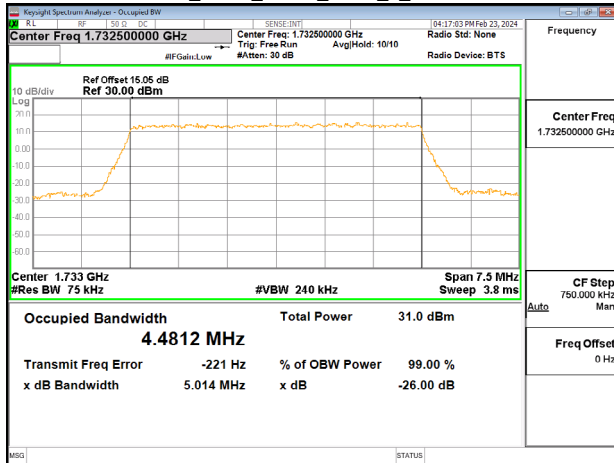
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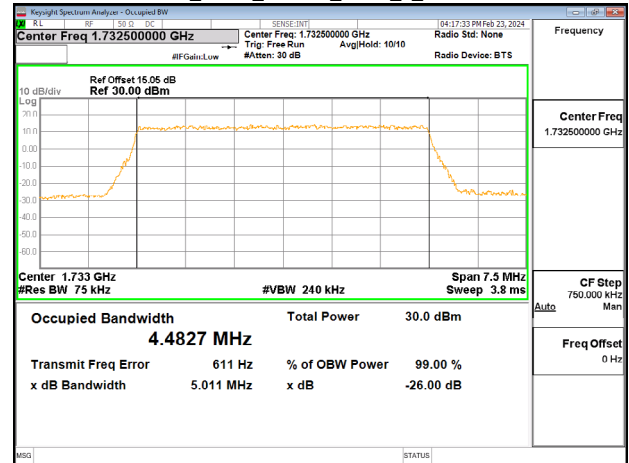
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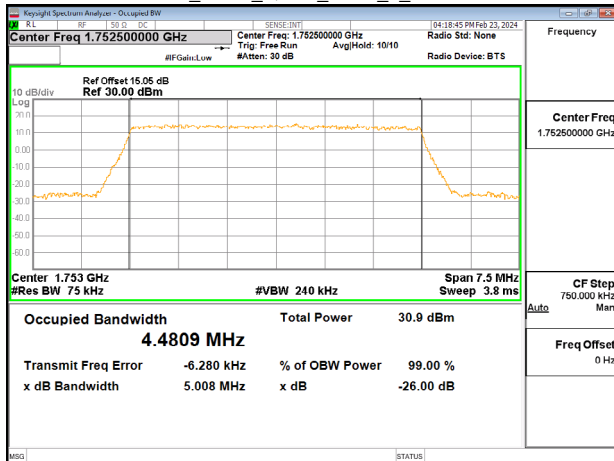
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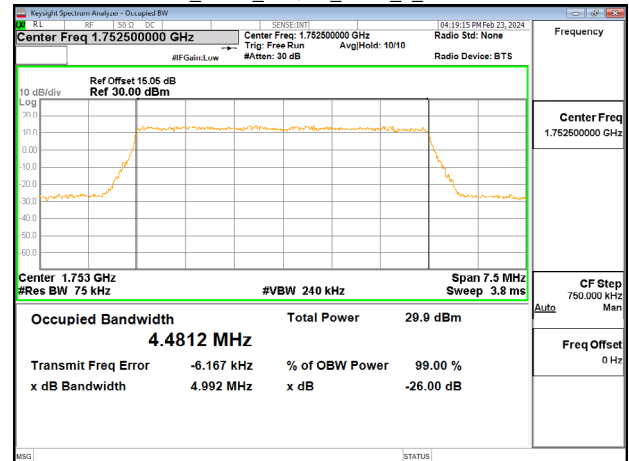
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Band4_5MHz_QPSK_RB25_0_CH20375



Band4_5MHz_16QAM_RB25_0_CH20375

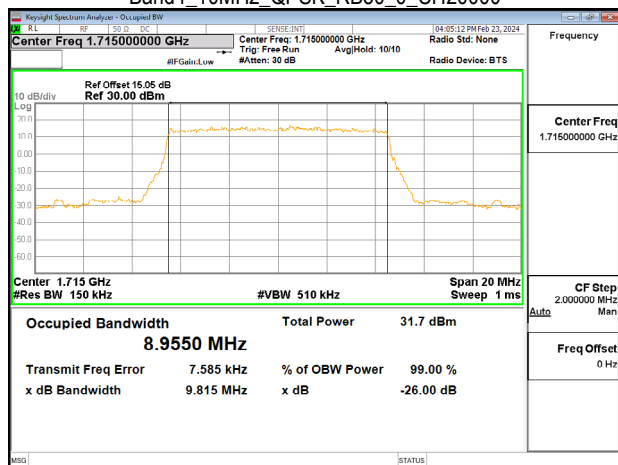


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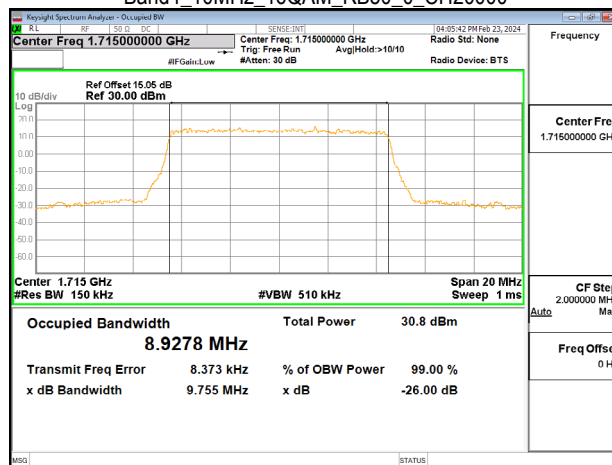
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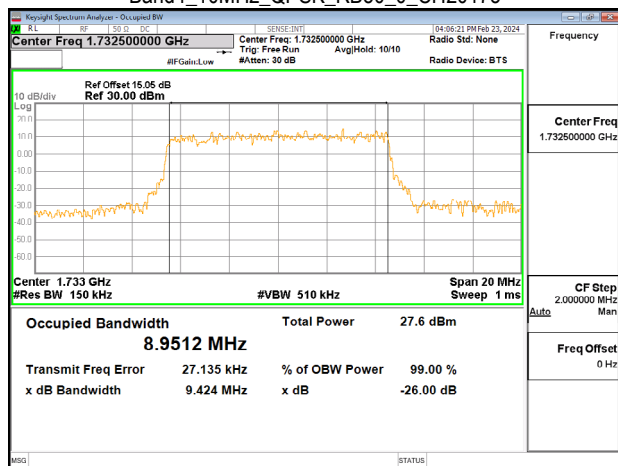
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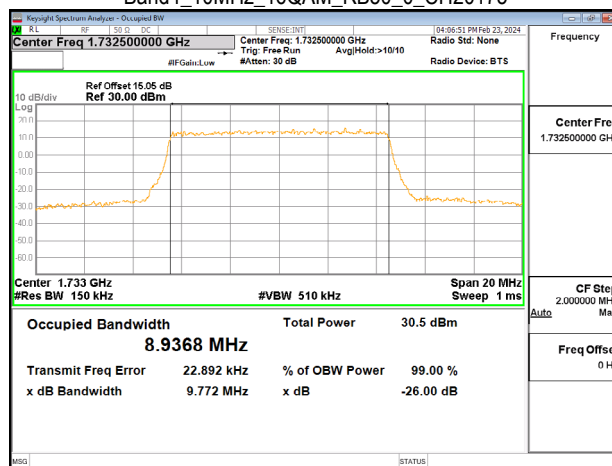
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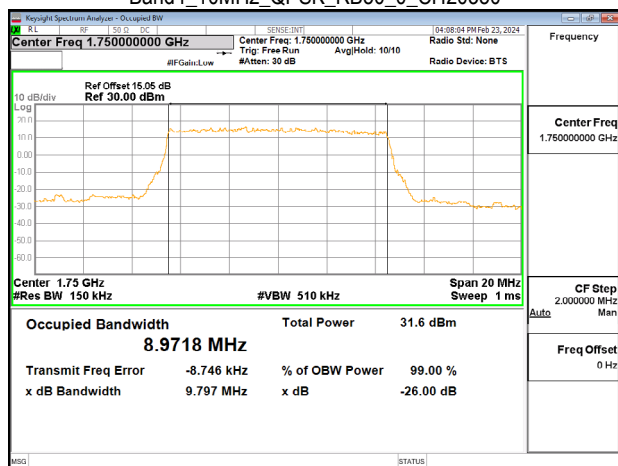
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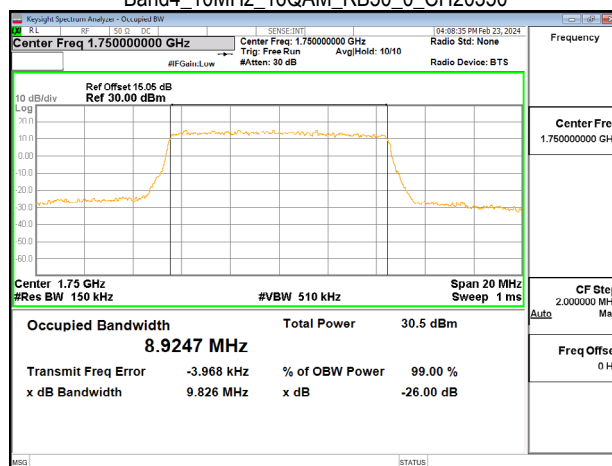
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Band4_10MHz_QPSK_RB50_0_CH20350



Band4_10MHz_16QAM_RB50_0_CH20350



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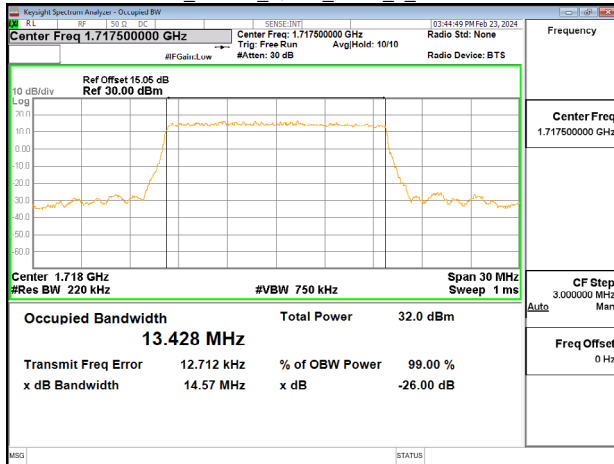
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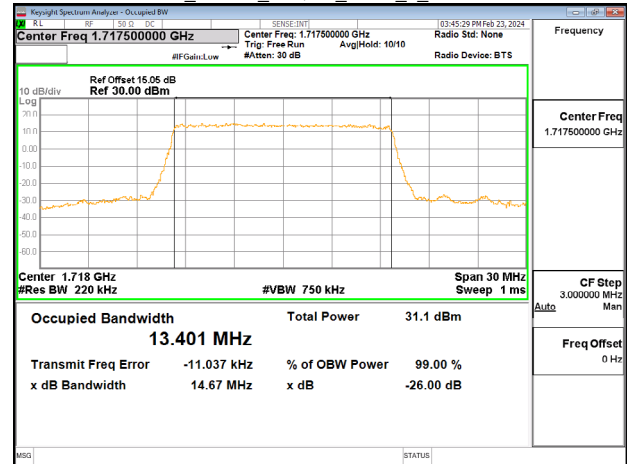
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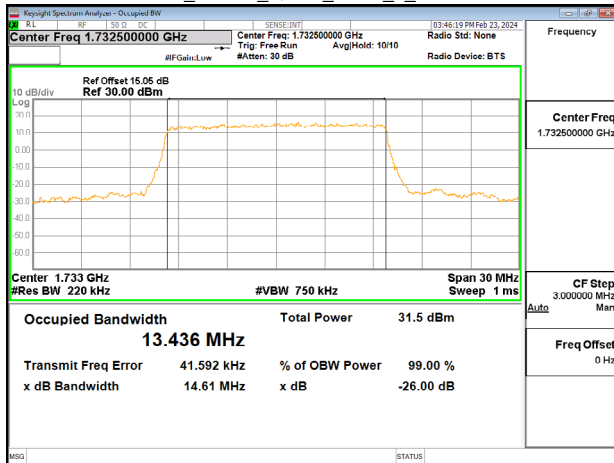
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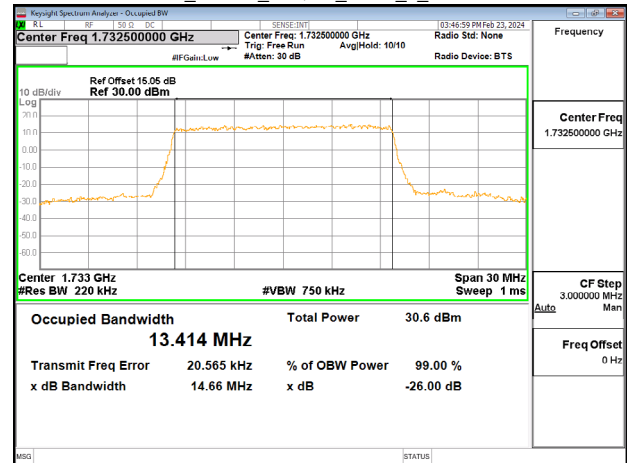
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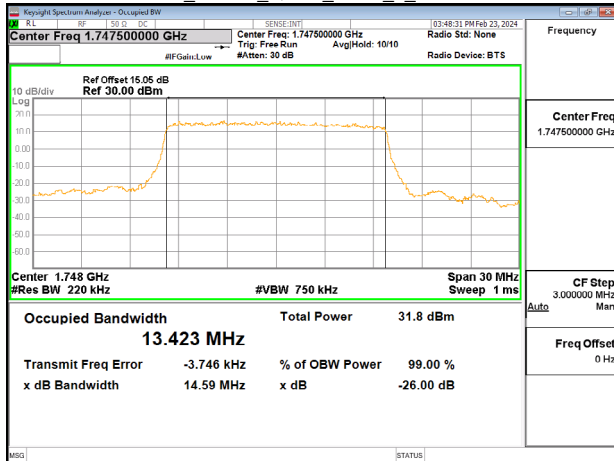
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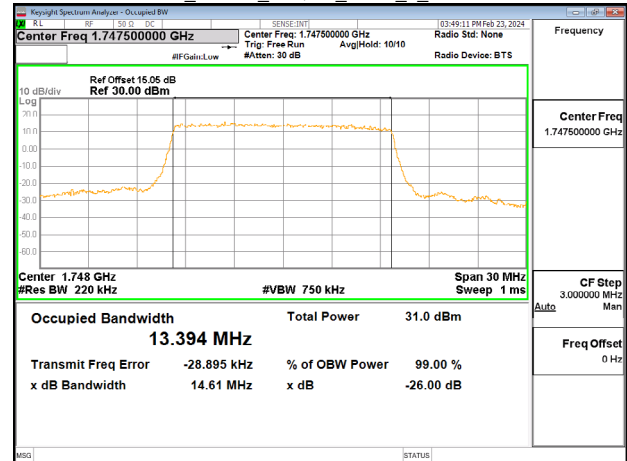
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Band4_15MHz_QPSK_RB75_0_CH20325



Band4_15MHz_16QAM_RB75_0_CH20325



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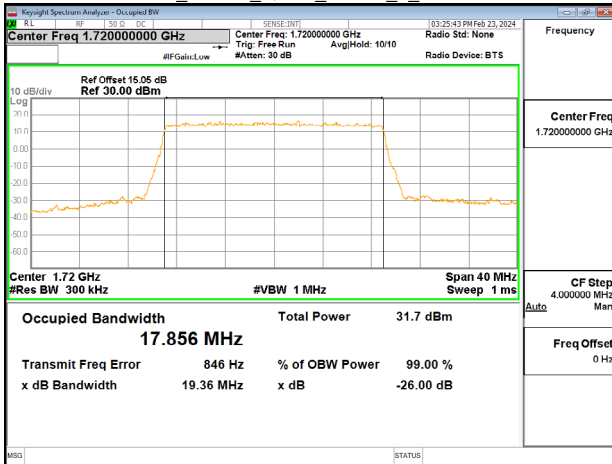
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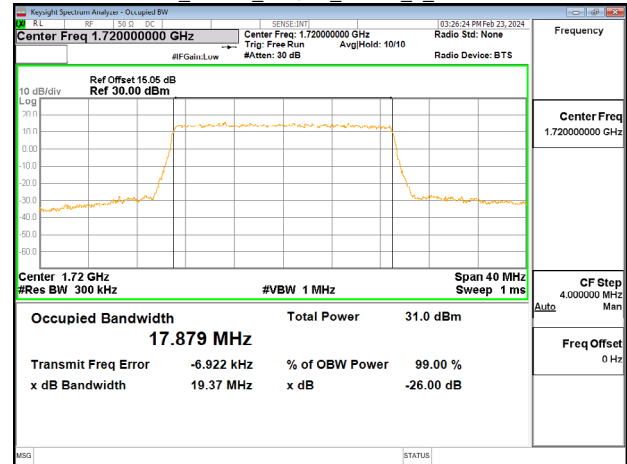
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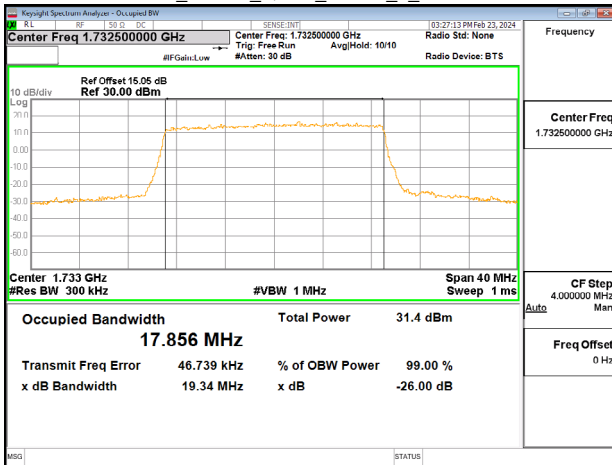
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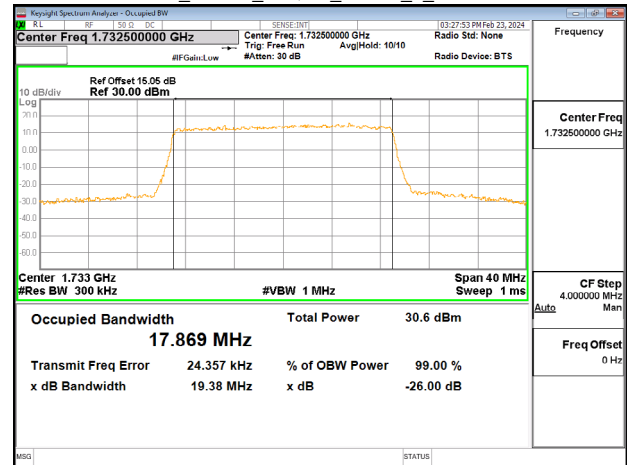
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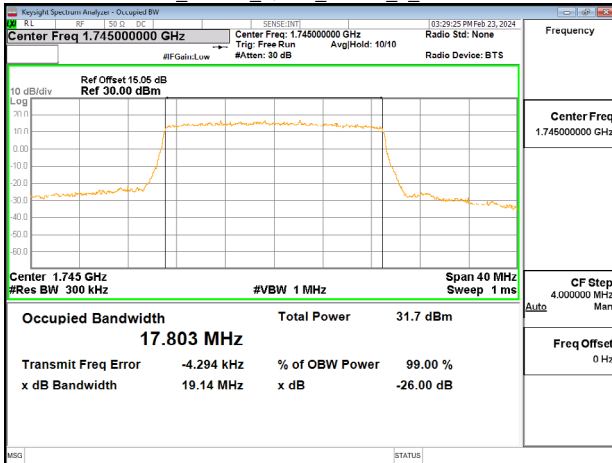
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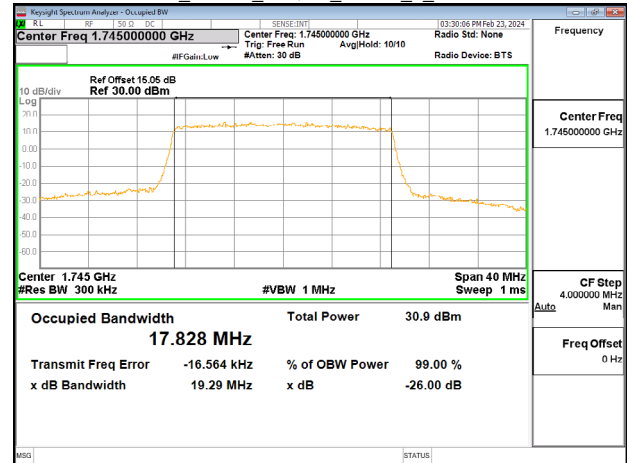
Band4 20MHz 16QAM_RB100_0_CH20175



Band4 20MHz QPSK_RB100_0_CH20300



Band4 20MHz 16QAM_RB100_0_CH20300



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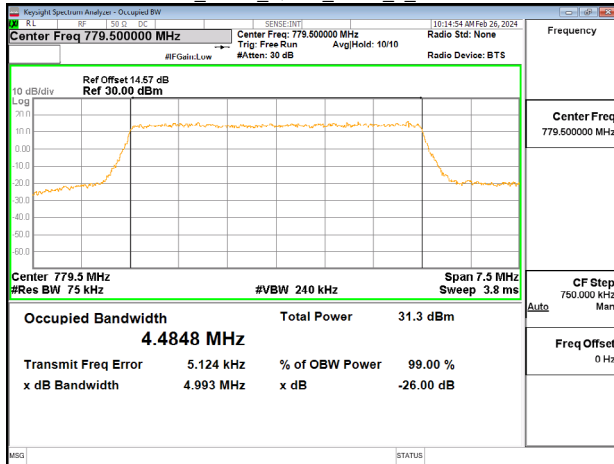
t (886-2) 2299-3279

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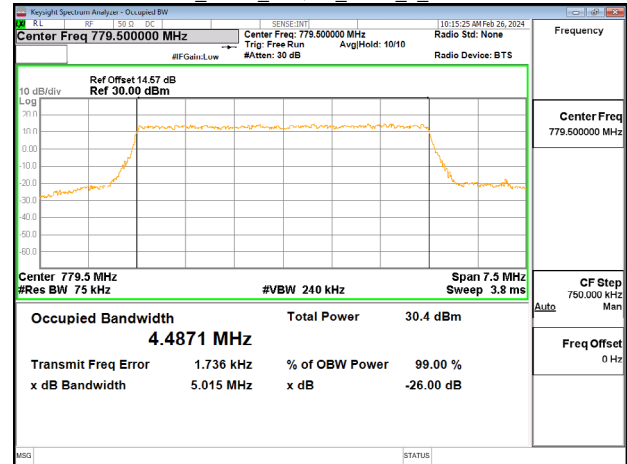
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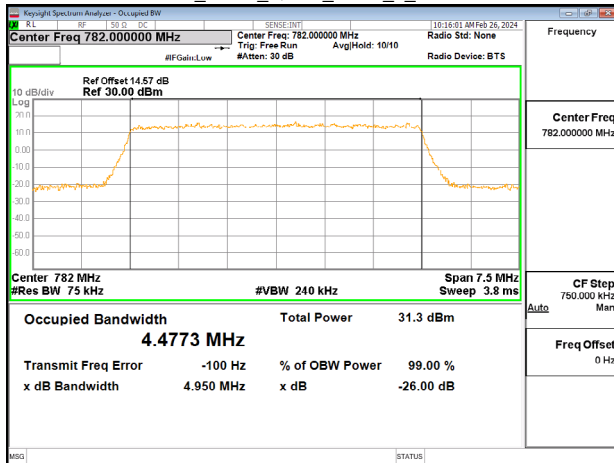
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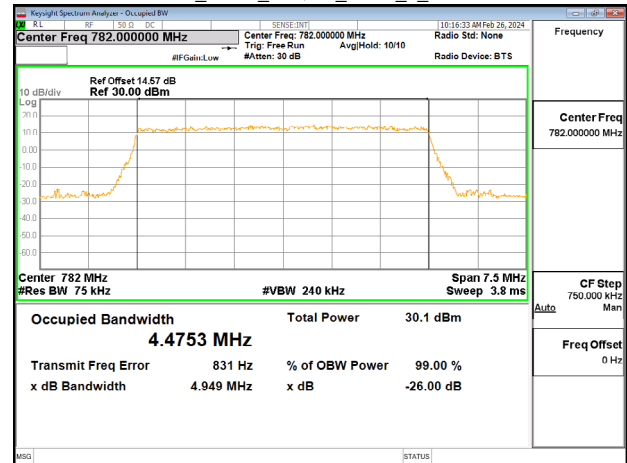
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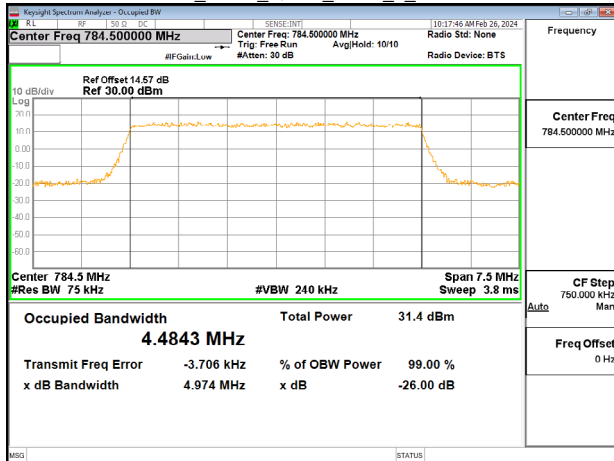
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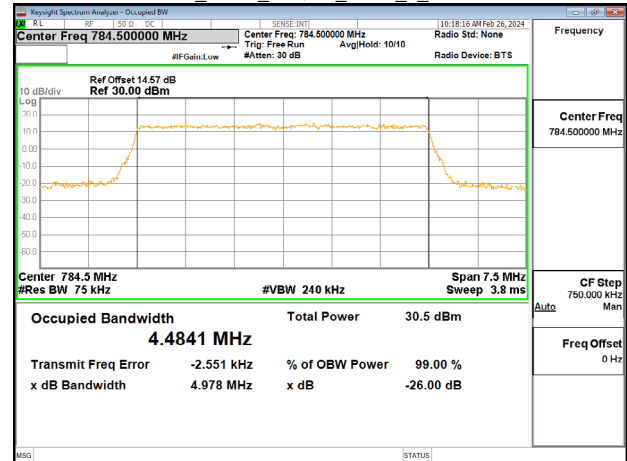
Band13_5MHz_16QAM_RB25_0_CH23230



Band13_5MHz_QPSK_RB25_0_CH23255



Band13_5MHz_16QAM_RB25_0_CH23255



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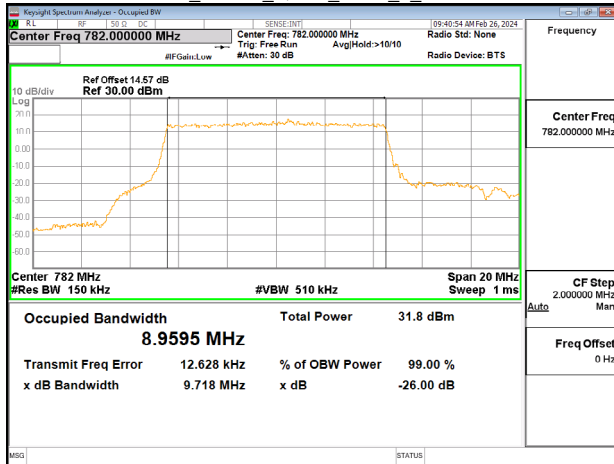
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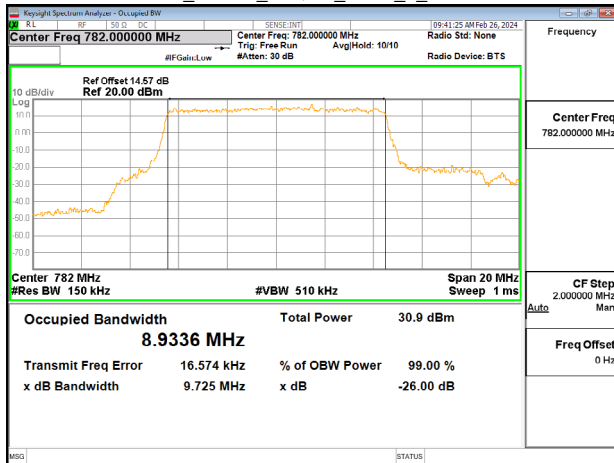
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Band13_10MHz_QPSK_RB50_0_CH23230



Band13_10MHz_16QAM_RB50_0_CH23230



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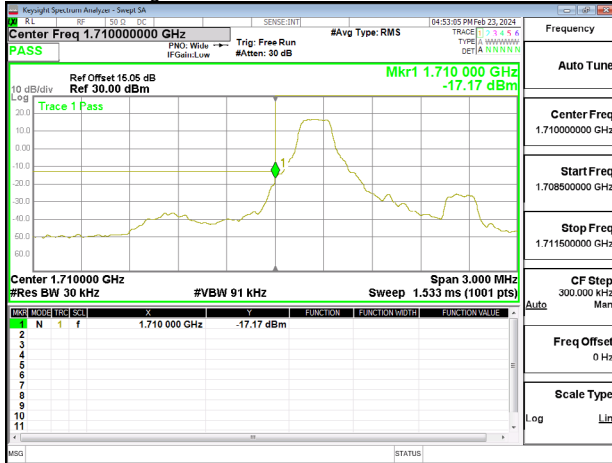
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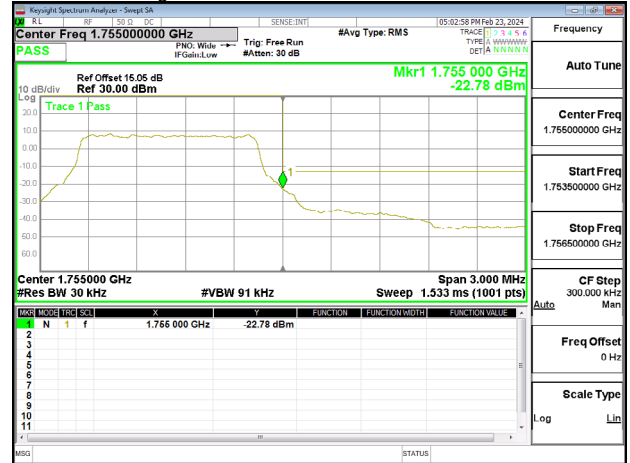
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3 OUT OF BAND EMISSION AT ANTENNA TERMINALS

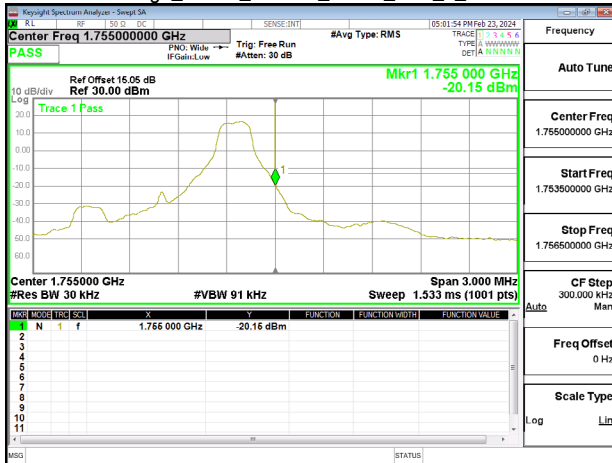
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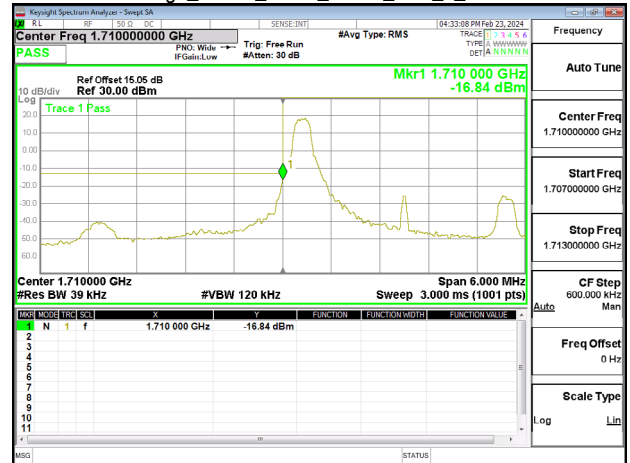
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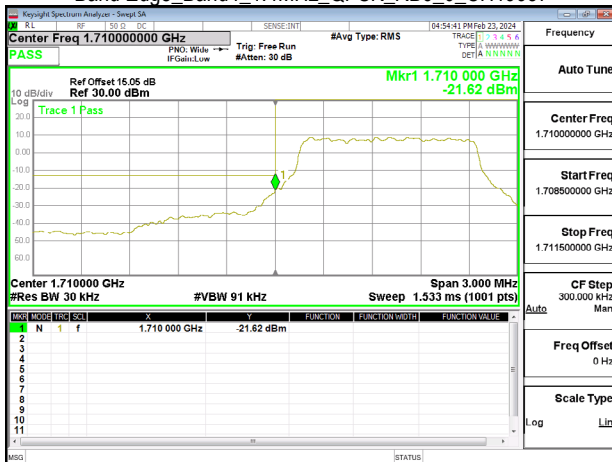
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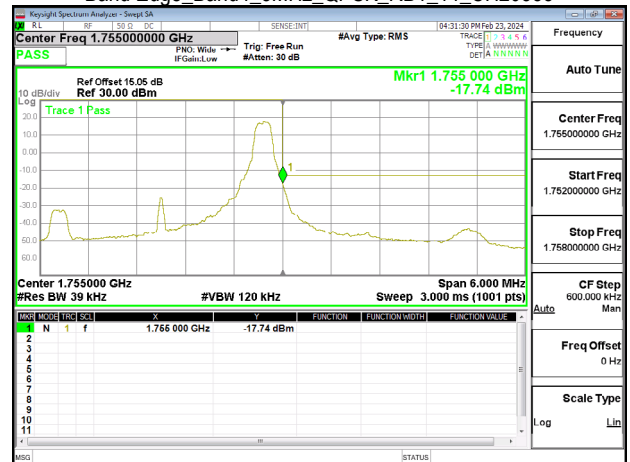
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Band Edge_Band4_1.4MHz_QPSK_RB6_0_CH19957



Band Edge_Band4_3MHz_QPSK_RB1_14_CH20385

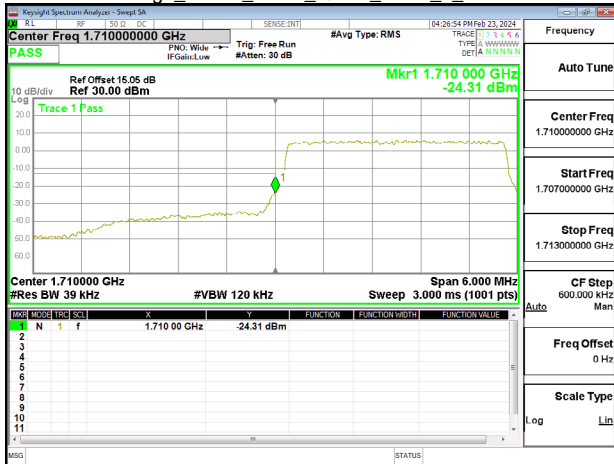


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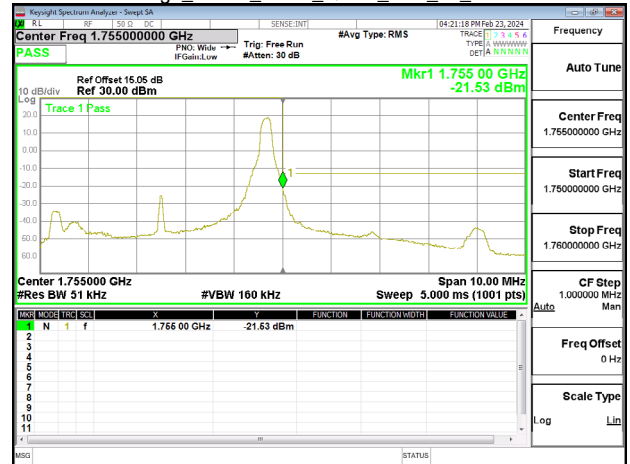
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Band Edge_Band4_3MHz_QPSK_RB15_0_CH19965



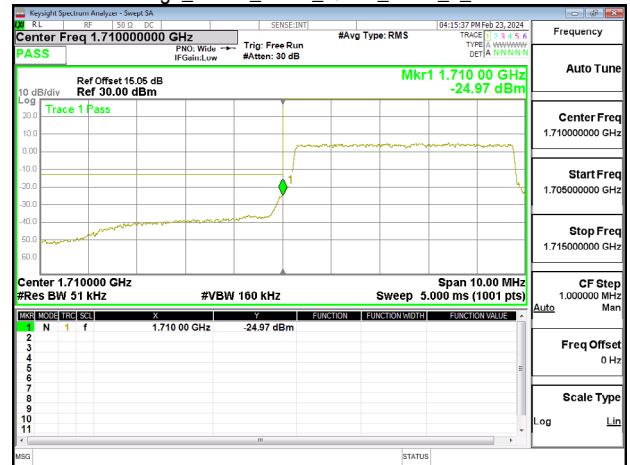
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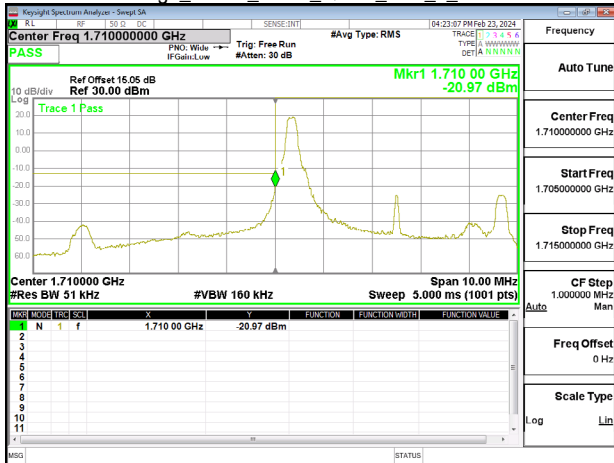
Band Edge_Band4_3MHz_QPSK_RB15_0_CH20385



Band Edge_Band4_5MHz_QPSK_RB25_0_CH19975



Band Edge_Band4_5MHz_QPSK_RB1_0_CH19975



Band Edge_Band4_5MHz_QPSK_RB25_0_CH20375

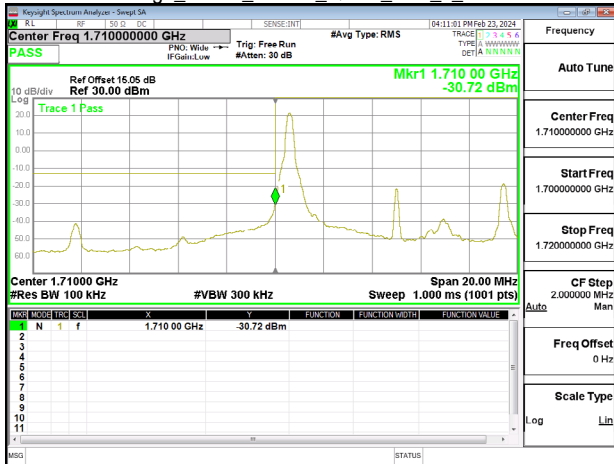


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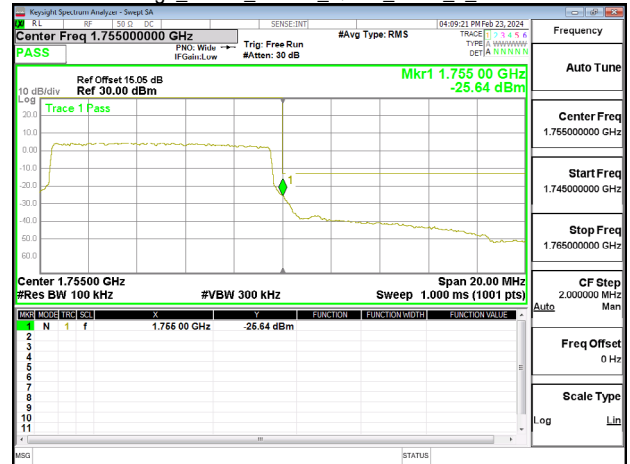
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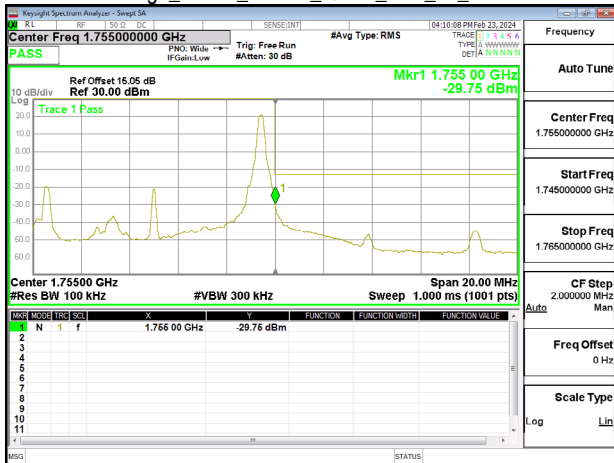
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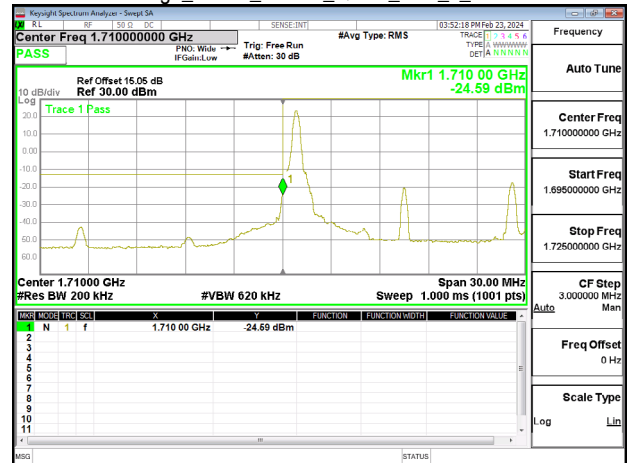
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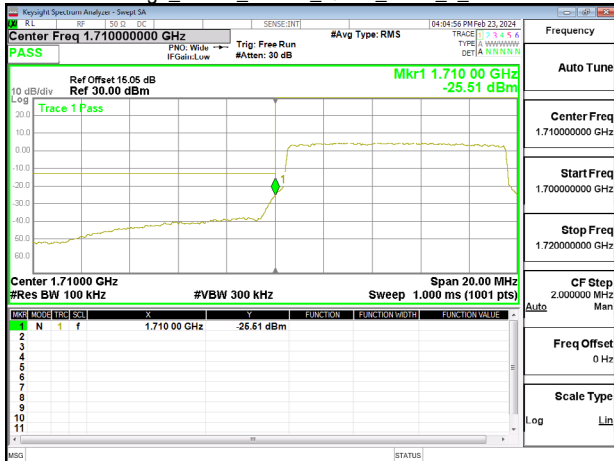
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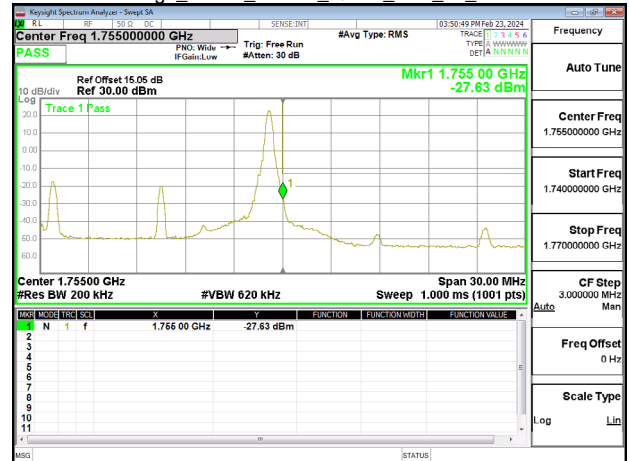
Band Edge_Band4_15MHz_QPSK_RB1_0_CH20025



Band Edge_Band4_10MHz_QPSK_RB50_0_CH20000



Band Edge_Band4_15MHz_QPSK_RB1_74_CH20325



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