

ANNEX A - MEASUREMENT RESULTS

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1 MAXIMUM OUTPUT POWER

Antenna gain (dBi)

0.5

CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	0	20.94	21.44	33	-11.56
				6	0	0	18.92	19.42	33	-13.58
	18900	1880	QPSK	1	0	0	20.91	21.41	33	-11.59
				6	0	0	18.87	19.37	33	-13.63
	19193	1909.3	QPSK	1	5	0	20.84	21.34	33	-11.66
				6	0	0	18.89	19.39	33	-13.61
	18607	1850.7	16QAM	1	0	0	19.96	20.46	33	-12.54
				5	0	0	18.93	19.43	33	-13.57
	18900	1880	16QAM	1	0	0	19.99	20.49	33	-12.51
				5	0	0	18.91	19.41	33	-13.59
	19193	1909.3	16QAM	1	5	0	19.93	20.43	33	-12.57
				5	0	0	18.84	19.34	33	-13.66

Antenna gain (dBi)

0.5

CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	0	20.83	21.33	33	-11.67
				6	0	0	18.92	19.42	33	-13.58
	18900	1880	QPSK	1	0	0	20.95	21.45	33	-11.55
				6	0	0	18.84	19.34	33	-13.66
	19185	1908.5	QPSK	1	5	1	20.86	21.36	33	-11.64
				6	0	1	18.95	19.45	33	-13.55
	18615	1851.5	16QAM	1	0	0	19.93	20.43	33	-12.57
				5	0	0	18.99	19.49	33	-13.51
	18900	1880	16QAM	1	0	0	19.95	20.45	33	-12.55
				5	0	0	18.96	19.46	33	-13.54
	19185	1908.5	16QAM	1	5	1	19.91	20.41	33	-12.59
				5	0	1	18.86	19.36	33	-13.64

Antenna gain (dBi)

0.5

CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	0	21.56	22.06	33	-10.94
				6	0	0	19.82	20.32	33	-12.68
	18900	1880	QPSK	1	0	0	21.45	21.95	33	-11.05
				6	0	0	19.95	20.45	33	-12.55
	19175	1907.5	QPSK	1	5	3	21.55	22.05	33	-10.95
				6	0	3	19.95	20.45	33	-12.55
	18625	1852.5	16QAM	1	0	0	21.53	22.03	33	-10.97
				5	0	0	18.87	19.37	33	-13.63
	18900	1880	16QAM	1	0	0	21.39	21.89	33	-11.11
				5	0	0	18.90	19.40	33	-13.60
	19175	1907.5	16QAM	1	5	3	21.47	21.97	33	-11.03
				5	0	3	18.95	19.45	33	-13.55

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Antenna gain (dBi) 0.5

CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	0	21.56	22.06	33	-10.94
				6	0	0	19.86	20.36	33	-12.64
	18900	1880	QPSK	1	0	0	21.45	21.95	33	-11.05
				6	0	0	19.92	20.42	33	-12.58
	19150	1905	QPSK	1	5	7	21.49	21.99	33	-11.01
				6	0	7	19.91	20.41	33	-12.59
	18650	1855	16QAM	1	0	0	21.45	21.95	33	-11.05
				5	0	0	20.00	20.50	33	-12.50
	18900	1880	16QAM	1	0	0	21.52	22.02	33	-10.98
				5	0	0	19.81	20.31	33	-12.69
	19150	1905	16QAM	1	5	7	21.42	21.92	33	-11.08
				5	0	7	19.97	20.47	33	-12.53

Antenna gain (dBi) 0.5

CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	0	21.48	21.98	33	-11.02
				6	0	0	21.50	22.00	33	-11.00
	18900	1880	QPSK	1	0	0	21.53	22.03	33	-10.97
				6	0	0	21.50	22.00	33	-11.00
	19125	1902.5	QPSK	1	5	11	21.49	21.99	33	-11.01
				6	0	11	21.48	21.98	33	-11.02
	18675	1857.5	16QAM	1	0	0	21.47	21.97	33	-11.03
				5	0	0	21.48	21.98	33	-11.02
	18900	1880	16QAM	1	0	0	21.50	22.00	33	-11.00
				5	0	0	21.38	21.88	33	-11.12
	19125	1902.5	16QAM	1	5	11	21.40	21.90	33	-11.10
				5	0	11	21.42	21.92	33	-11.08

Antenna gain (dBi) 0.5

CAT-M1 Band 2 Uplink frequency band : 1850 to 1910 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	0	21.59	22.09	33	-10.91
				6	0	0	21.42	21.92	33	-11.08
	18900	1880	QPSK	1	0	0	21.83	22.33	33	-10.67
				6	0	0	21.57	22.07	33	-10.93
	19100	1900	QPSK	1	5	15	21.40	21.90	33	-11.10
				6	0	15	21.54	22.04	33	-10.96
	18700	1860	16QAM	1	0	0	21.49	21.99	33	-11.01
				5	0	0	21.47	21.97	33	-11.03
	18900	1880	16QAM	1	0	0	21.44	21.94	33	-11.06
				5	0	0	21.37	21.87	33	-11.13
	19100	1900	16QAM	1	5	15	21.52	22.02	33	-10.98
				5	0	15	21.45	21.95	33	-11.05

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Antenna gain (dBi) 0.5

CAT-M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	0	20.94	21.44	30	-8.56
				6	0	0	18.84	19.34	30	-10.66
	20175	1732.5	QPSK	1	0	0	20.93	21.43	30	-8.57
				6	0	0	18.83	19.33	30	-10.67
	20393	1754.3	QPSK	1	5	0	20.92	21.42	30	-8.58
				6	0	0	18.95	19.45	30	-10.55
	19957	1710.7	16QAM	1	0	0	19.96	20.46	30	-9.54
				5	0	0	18.94	19.44	30	-10.56
	20175	1732.5	16QAM	1	0	0	19.84	20.34	30	-9.66
				5	0	0	18.95	19.45	30	-10.55
	20393	1754.3	16QAM	1	5	0	19.84	20.34	30	-9.66
				5	0	0	18.95	19.45	30	-10.55

Antenna gain (dBi) 0.5

CAT-M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	0	20.88	21.38	30	-8.62
				6	0	0	18.87	19.37	30	-10.63
	20175	1732.5	QPSK	1	0	0	20.86	21.36	30	-8.64
				6	0	0	18.95	19.45	30	-10.55
	20385	1753.5	QPSK	1	5	1	20.87	21.37	30	-8.63
				6	0	1	18.84	19.34	30	-10.66
	19965	1711.5	16QAM	1	0	0	19.97	20.47	30	-9.53
				5	0	0	18.86	19.36	30	-10.64
	20175	1732.5	16QAM	1	0	0	19.83	20.33	30	-9.67
				5	0	0	18.97	19.47	30	-10.53
	20385	1753.5	16QAM	1	5	1	19.97	20.47	30	-9.53
				5	0	1	18.91	19.41	30	-10.59

Antenna gain (dBi) 0.5

CAT-M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	0	21.35	21.85	30	-8.15
				6	0	0	19.00	19.50	30	-10.50
	20175	1732.5	QPSK	1	0	0	21.36	21.86	30	-8.14
				6	0	0	19.84	20.34	30	-9.66
	20375	1752.5	QPSK	1	5	3	21.45	21.95	30	-8.05
				6	0	3	19.97	20.47	30	-9.53
	19975	1712.5	16QAM	1	0	0	21.39	21.89	30	-8.11
				5	0	0	18.88	19.38	30	-10.62
	20175	1732.5	16QAM	1	0	0	21.51	22.01	30	-7.99
				5	0	0	18.81	19.31	30	-10.69
	20375	1752.5	16QAM	1	5	3	21.46	21.96	30	-8.04
				5	0	3	18.94	19.44	30	-10.56

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Antenna gain (dBi) 0.5

CAT-M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	0	21.37	21.87	30	-8.13
				6	0	0	19.92	20.42	30	-9.58
	20175	1732.5	QPSK	1	0	0	21.48	21.98	30	-8.02
				6	0	0	19.99	20.49	30	-9.51
	20350	1750	QPSK	1	5	7	21.40	21.90	30	-8.10
				6	0	7	19.96	20.46	30	-9.54
	20000	1715	16QAM	1	0	0	21.36	21.86	30	-8.14
				5	0	0	19.85	20.35	30	-9.65
	20175	1732.5	16QAM	1	0	0	21.52	22.02	30	-7.98
				5	0	0	19.96	20.46	30	-9.54
	20350	1750	16QAM	1	5	7	21.39	21.89	30	-8.11
				5	0	7	19.85	20.35	30	-9.65

Antenna gain (dBi) 0.5

CAT-M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	0	21.52	22.02	30	-7.98
				6	0	0	21.46	21.96	30	-8.04
	20175	1732.5	QPSK	1	0	0	21.52	22.02	30	-7.98
				6	0	0	21.54	22.04	30	-7.96
	20325	1747.5	QPSK	1	5	11	21.52	22.02	30	-7.98
				6	0	11	21.49	21.99	30	-8.01
	20025	1717.5	16QAM	1	0	0	21.38	21.88	30	-8.12
				5	0	0	21.44	21.94	30	-8.06
	20175	1732.5	16QAM	1	0	0	21.50	22.00	30	-8.00
				5	0	0	21.41	21.91	30	-8.09
	20325	1747.5	16QAM	1	5	11	21.36	21.86	30	-8.14
				5	0	11	21.37	21.87	30	-8.13

Antenna gain (dBi) 0.5

CAT-M1 Band 4 Uplink frequency band : 1710 to 1755 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	0	21.61	22.11	30	-7.89
				6	0	0	21.53	22.03	30	-7.97
	20175	1732.5	QPSK	1	0	0	21.77	22.27	30	-7.73
				6	0	0	21.43	21.93	30	-8.07
	20300	1745	QPSK	1	5	15	21.47	21.97	30	-8.03
				6	0	15	21.47	21.97	30	-8.03
	20050	1720	16QAM	1	0	0	21.51	22.01	30	-7.99
				5	0	0	21.40	21.90	30	-8.10
	20175	1732.5	16QAM	1	0	0	21.47	21.97	30	-8.03
				5	0	0	21.41	21.91	30	-8.09
	20300	1745	16QAM	1	5	15	21.37	21.87	30	-8.13
				5	0	15	21.51	22.01	30	-7.99

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Antenna gain (dBi) 0.5

CAT-M1 Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	0	21.34	19.69	21.84	34.77	-15.08
				6	0	0	18.86	17.21	19.36	34.77	-17.56
	23095	707.5	QPSK	1	0	0	21.43	19.78	21.93	34.77	-14.99
				6	0	0	18.98	17.33	19.48	34.77	-17.44
	23173	715.5	QPSK	1	5	0	21.45	19.80	21.95	34.77	-14.97
				6	0	0	18.89	17.24	19.39	34.77	-17.53
	23017	699.7	16QAM	1	0	0	19.89	18.24	20.39	34.77	-16.53
				5	0	0	18.95	17.30	19.45	34.77	-17.47
	23095	707.5	16QAM	1	0	0	19.85	18.20	20.35	34.77	-16.57
				5	0	0	18.98	17.33	19.48	34.77	-17.44
	23173	715.5	16QAM	1	5	0	19.88	18.23	20.38	34.77	-16.54
				5	0	0	18.83	17.18	19.33	34.77	-17.59

Antenna gain (dBi) 0.5

CAT-M1 Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	0	21.31	19.66	21.81	34.77	-15.11
				6	0	0	18.93	17.28	19.43	34.77	-17.49
	23095	707.5	QPSK	1	0	0	21.39	19.74	21.89	34.77	-15.03
				6	0	0	18.86	17.21	19.36	34.77	-17.56
	23165	714.5	QPSK	1	5	1	21.31	19.66	21.81	34.77	-15.11
				6	0	1	18.85	17.20	19.35	34.77	-17.57
	23025	700.5	16QAM	1	0	0	19.84	18.19	20.34	34.77	-16.58
				5	0	0	18.91	17.26	19.41	34.77	-17.51
	23095	707.5	16QAM	1	0	0	19.91	18.26	20.41	34.77	-16.51
				5	0	0	18.85	17.20	19.35	34.77	-17.57
	23165	714.5	16QAM	1	5	1	19.95	18.30	20.45	34.77	-16.47
				5	0	1	18.91	17.26	19.41	34.77	-17.51

Antenna gain (dBi) 0.5

CAT-M1 Band 12_Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	0	21.44	19.79	21.94	34.77	-14.98
				6	0	0	18.91	17.26	19.41	34.77	-17.51
	23095	707.5	QPSK	1	0	0	21.34	19.69	21.84	34.77	-15.08
				6	0	0	18.91	17.26	19.41	34.77	-17.51
	23155	713.5	QPSK	1	5	3	21.38	19.73	21.88	34.77	-15.04
				6	0	3	18.86	17.21	19.36	34.77	-17.56
	23035	701.5	16QAM	1	0	0	19.95	18.30	20.45	34.77	-16.47
				5	0	0	18.89	17.24	19.39	34.77	-17.53
	23095	707.5	16QAM	1	0	0	19.89	18.24	20.39	34.77	-16.53
				5	0	0	18.81	17.16	19.31	34.77	-17.61
	23155	713.5	16QAM	1	5	3	19.91	18.26	20.41	34.77	-16.51
				5	0	3	18.94	17.29	19.44	34.77	-17.48

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Antenna gain (dBi) 0.5

CAT-M1 Band 12 Uplink frequency band : 699 to 716 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	0	21.49	19.84	21.99	34.77	-14.93
				6	0	0	18.93	17.28	19.43	34.77	-17.49
	23095	707.5	QPSK	1	0	0	21.66	20.01	22.16	34.77	-14.76
				6	0	0	18.92	17.27	19.42	34.77	-17.50
	23130	711	QPSK	1	5	7	21.43	19.78	21.93	34.77	-14.99
				6	0	7	18.86	17.21	19.36	34.77	-17.56
	23060	704	16QAM	1	0	0	19.89	18.24	20.39	34.77	-16.53
				5	0	0	18.83	17.18	19.33	34.77	-17.59
	23095	707.5	16QAM	1	0	0	19.89	18.24	20.39	34.77	-16.53
				5	0	0	19.00	17.35	19.50	34.77	-17.42
	23130	711	16QAM	1	5	7	19.99	18.34	20.49	34.77	-16.43
				5	0	7	18.98	17.33	19.48	34.77	-17.44

Antenna gain (dBi) 0.5

CAT-M1 Band 13 Uplink frequency band : 777 to 787 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	0	21.38	19.73	21.88	34.77	-15.04
				6	0	0	18.93	17.28	19.43	34.77	-17.49
	23230	782	QPSK	1	0	0	21.25	19.60	21.75	34.77	-15.17
				6	0	0	18.97	17.32	19.47	34.77	-17.45
	23255	784.5	QPSK	1	5	3	21.30	19.65	21.80	34.77	-15.12
				6	0	3	18.90	17.25	19.40	34.77	-17.52
	23205	779.5	16QAM	1	0	0	19.83	18.18	20.33	34.77	-16.59
				5	0	0	18.85	17.20	19.35	34.77	-17.57
	23230	782	16QAM	1	0	0	19.92	18.27	20.42	34.77	-16.50
				5	0	0	18.90	17.25	19.40	34.77	-17.52
	23255	784.5	16QAM	1	5	3	19.87	18.22	20.37	34.77	-16.55
				5	0	3	18.97	17.32	19.47	34.77	-17.45

Antenna gain (dBi) 0.5

CAT-M1 Band 13 Uplink frequency band : 777 to 787 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	0	21.44	19.79	21.94	34.77	-14.98
				6	0	0	18.89	17.24	19.39	34.77	-17.53
	23230	782	16QAM	1	0	0	19.82	18.17	20.32	34.77	-16.60
				5	0	0	18.96	17.31	19.46	34.77	-17.46
	/	/	/	/	/	/	/	/	/	/	/
				/	/	/	/	/	/	/	/

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2 OCCUPIED BANDWIDTH MEASUREMENT

CAT-M1 BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0842	0.9160	1.272	1.097
1880.0	18900	1.0837	0.9185	1.260	1.107
1909.3	19193	1.0821	0.9168	1.266	1.099

CAT-M1 BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	1.1133	0.9457	1.306	1.182
1880.0	18900	1.1122	0.9523	1.305	1.143
1908.5	19185	1.1113	0.9453	1.321	1.146

CAT-M1 BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	1.1511	0.9902	1.370	1.216
1880.0	18900	1.1395	0.9905	1.387	1.213
1907.5	19175	1.1383	0.9892	1.384	1.221

CAT-M1 BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	1.2744	1.1099	1.681	1.370
1880.0	18900	1.2857	1.1221	1.927	1.434
1905.0	19150	1.2784	1.1149	1.948	1.367

CAT-M1 BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	1.3947	1.2322	2.677	1.566
1880.0	18900	1.4320	1.2367	2.789	1.666
1902.5	19125	1.4048	1.2110	2.744	1.599

CAT-M1 BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	1.5563	1.3867	3.374	2.227
1880.0	18900	1.5761	1.4025	3.782	2.408
1900.0	19100	1.5549	1.3799	3.742	2.325

CAT-M1 BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0849	0.9172	1.258	1.101
1732.5	20175	1.0830	0.9182	1.259	1.101
1754.3	20393	1.0830	0.9157	1.267	1.104

CAT-M1 BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	1.1070	0.9488	1.347	1.156
1732.5	20175	1.1094	0.9531	1.306	1.138
1753.5	20385	1.1192	0.9502	1.320	1.144

CAT-M1 BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19975	1.1398	0.9916	1.435	1.209
1732.5	20175	1.1410	0.9886	1.362	1.197
1752.5	20375	1.1479	0.9830	1.391	1.195

CAT-M1 BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	1.2755	1.1219	1.997	1.459
1732.5	20175	1.2744	1.1230	1.797	1.434
1750.0	20350	1.2892	1.1030	1.905	1.378

CAT-M1 BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	1.4033	1.2350	2.590	1.541
1732.5	20175	1.4037	1.2252	2.856	1.645
1747.5	20325	1.4264	1.2355	3.385	1.751

CAT-M1 BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	1.5851	1.3947	2.898	2.590
1732.5	20175	1.5572	1.3801	3.474	1.948
1745.0	20300	1.5272	1.3913	2.808	1.998

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CAT-M1 BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0811	0.9145	1.260	1.096
707.5	23095	1.0838	0.9167	1.273	1.091
715.3	23173	1.0841	0.9183	1.259	1.093

CAT-M1 BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	1.1001	0.9506	1.302	1.169
707.5	23095	1.1093	0.9497	1.304	1.165
714.5	23165	1.1089	0.9502	1.318	1.151

CAT-M1 BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	1.1510	0.9867	1.468	1.210
707.5	23095	1.1445	0.9880	1.425	1.209
713.5	23155	1.1439	0.9965	1.420	1.221

CAT-M1 BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	1.2803	1.1229	1.609	1.412
707.5	23095	1.2831	1.1144	1.796	1.438
711.0	23130	1.2803	1.1120	1.617	1.457

CAT-M1 BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	1.1485	0.9881	1.470	1.210
782.0	23230	1.1444	0.9918	1.516	1.201
784.5	23255	1.1452	0.9887	1.462	1.220

CAT-M1 BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	1.2750	1.0872	1.783	1.357

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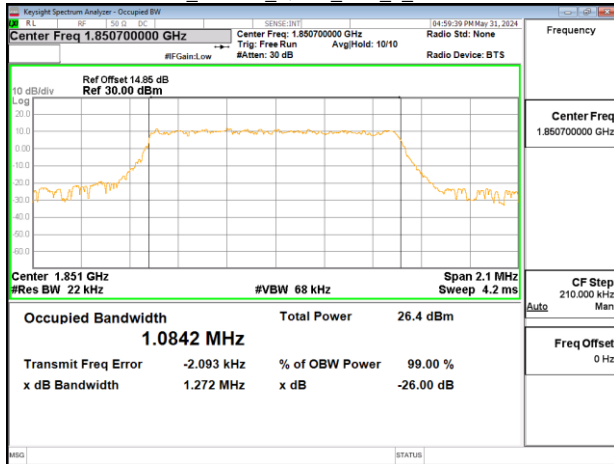
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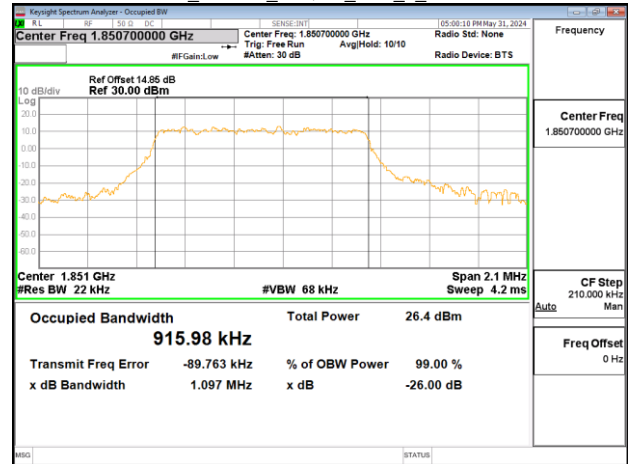
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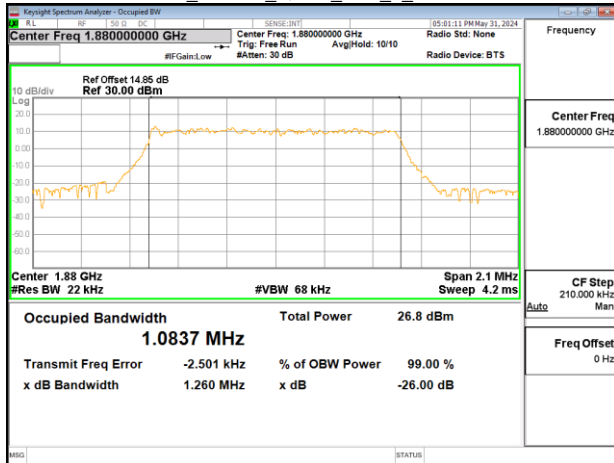
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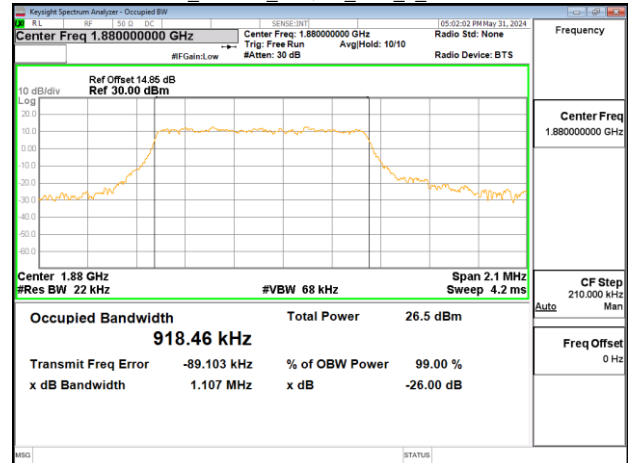
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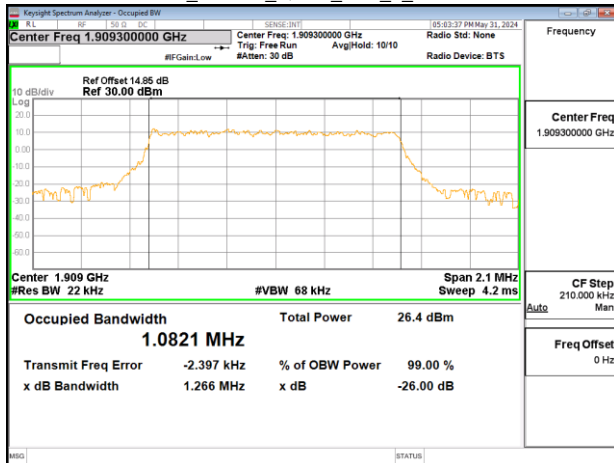
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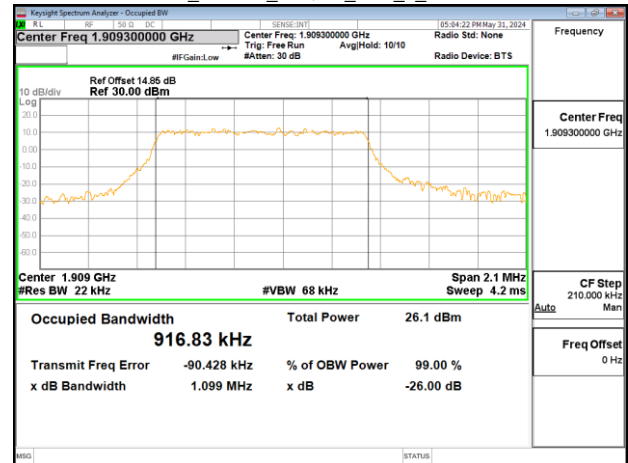
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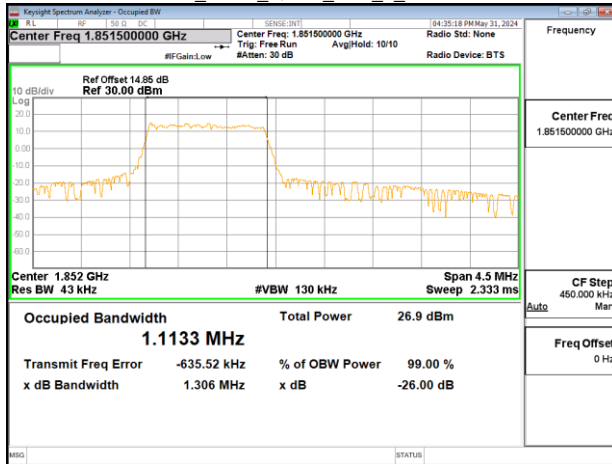


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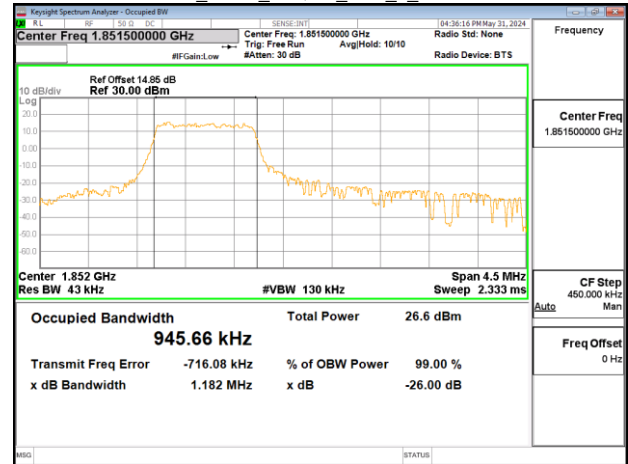
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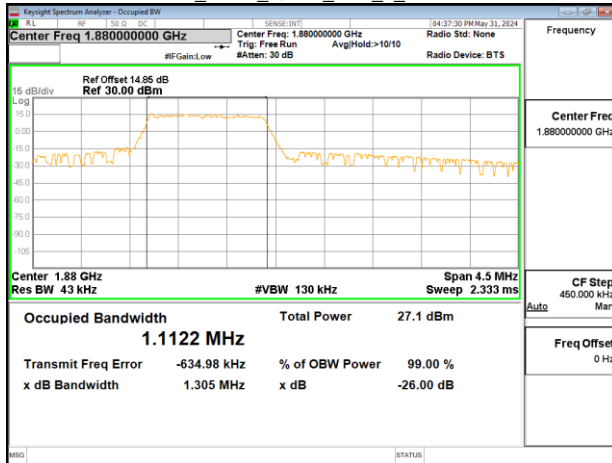
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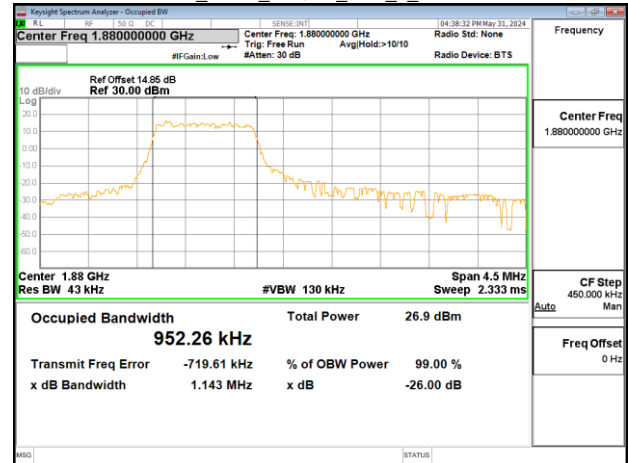
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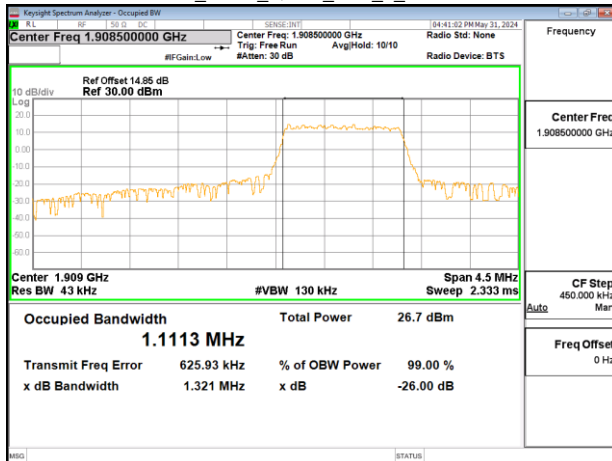
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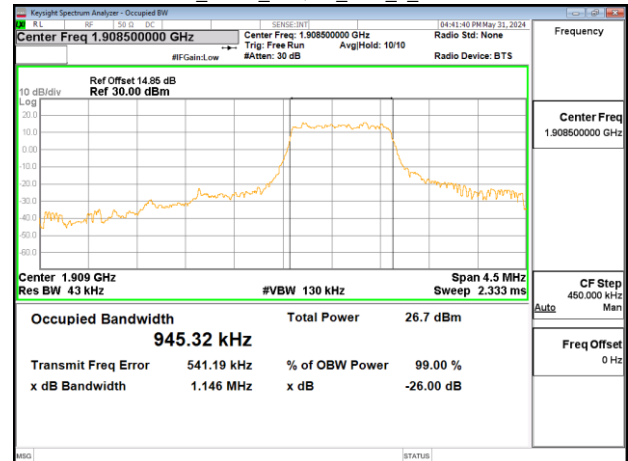
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Band2_3MHz_QPSK_RB6_0_CH19185



Band2_3MHz_16QAM_RB5_0_CH19185

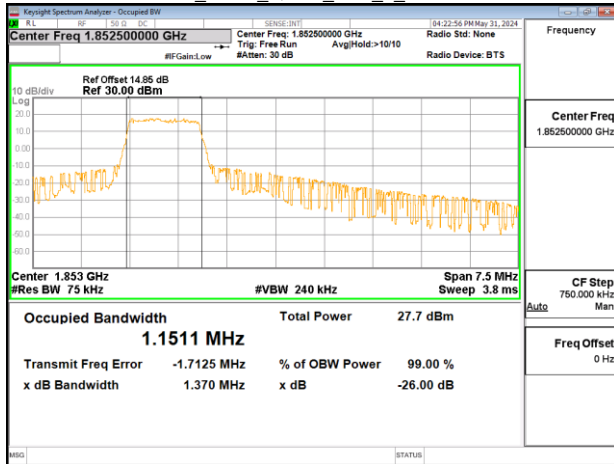


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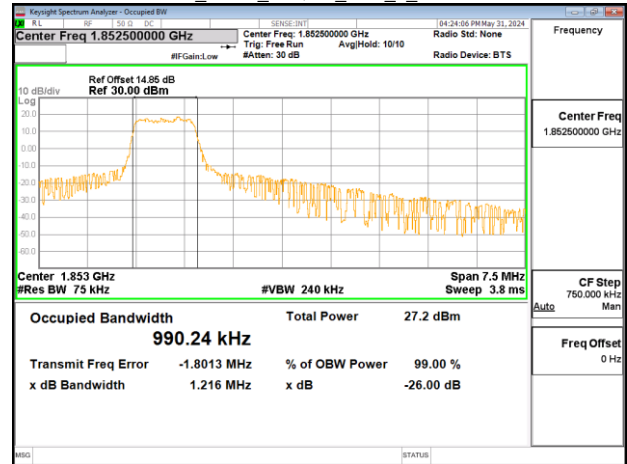
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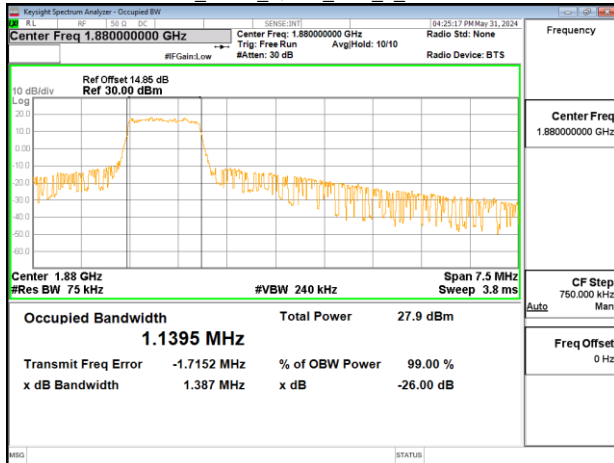
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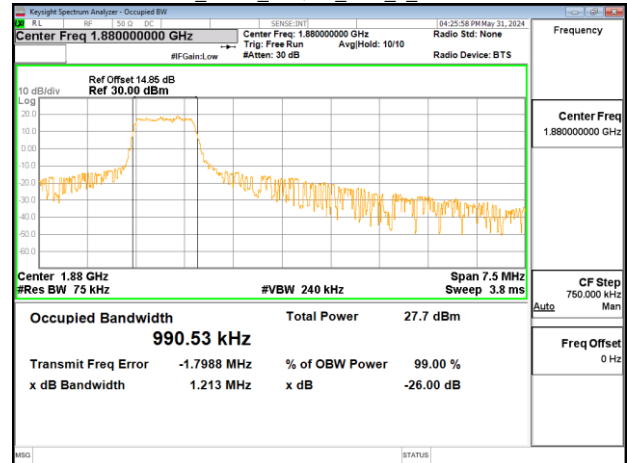
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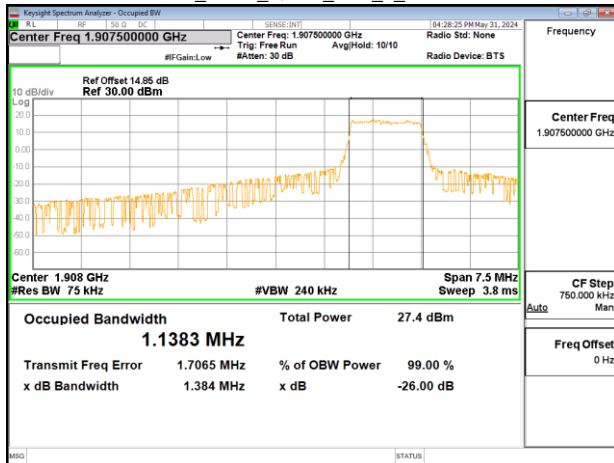
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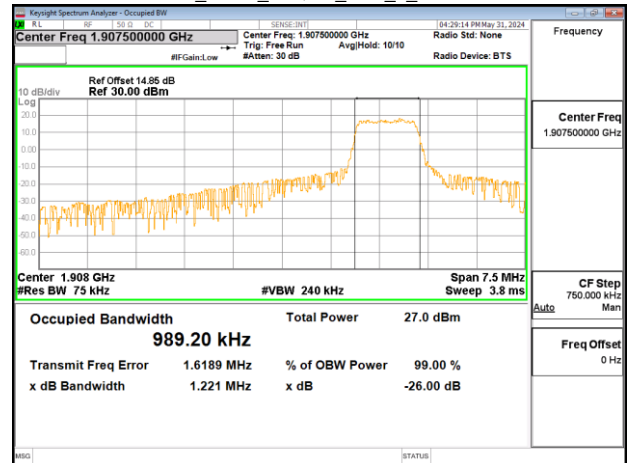
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Band2_5MHz_QPSK_RB6_0_CH19175



Band2_5MHz_16QAM_RB5_0_CH19175

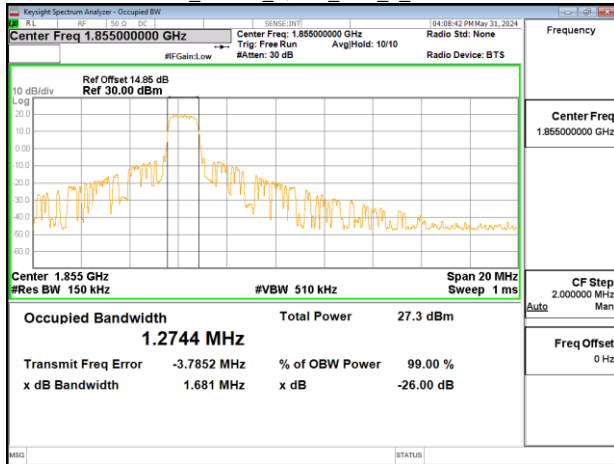


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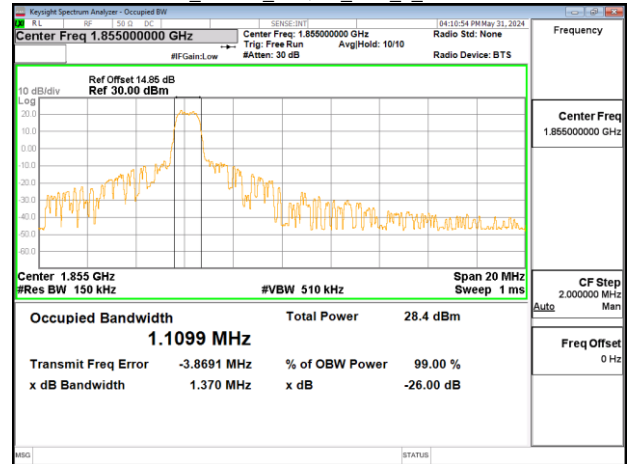
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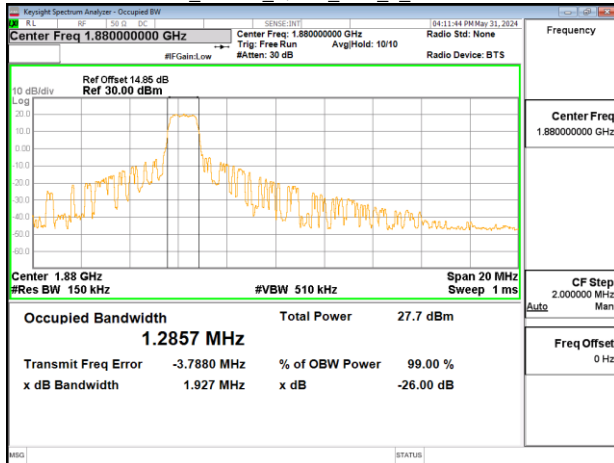
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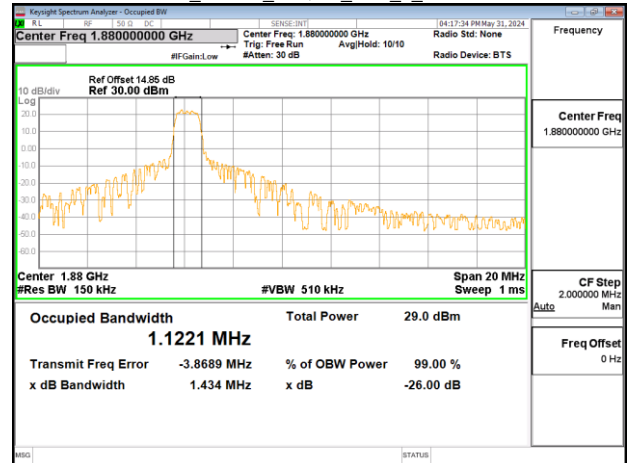
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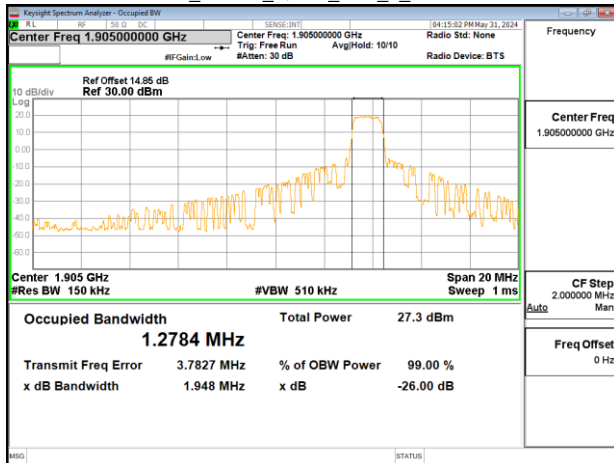
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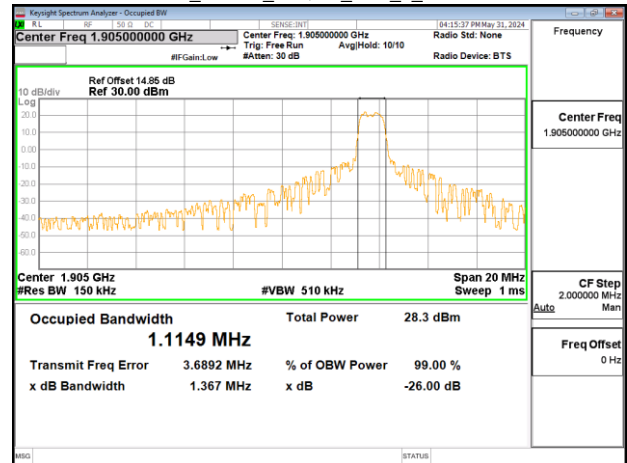
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Band2_10MHz_QPSK_RB6_0_CH19150



Band2_10MHz_16QAM_RB5_0_CH19150

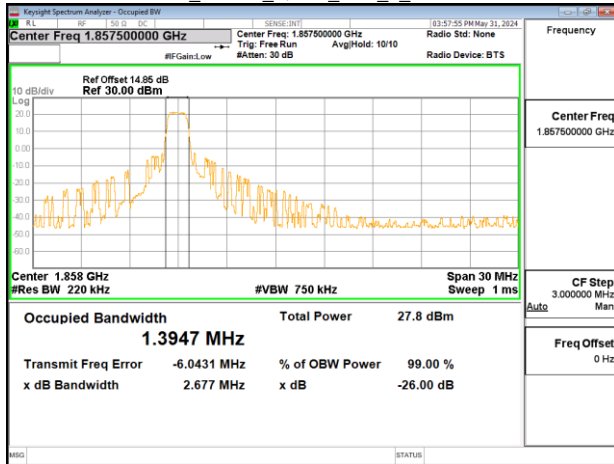


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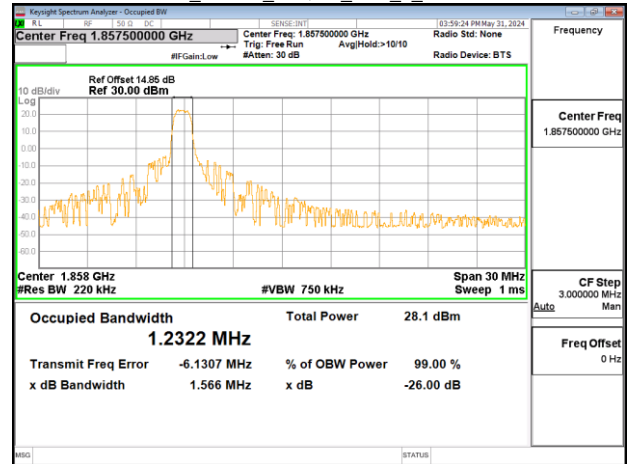
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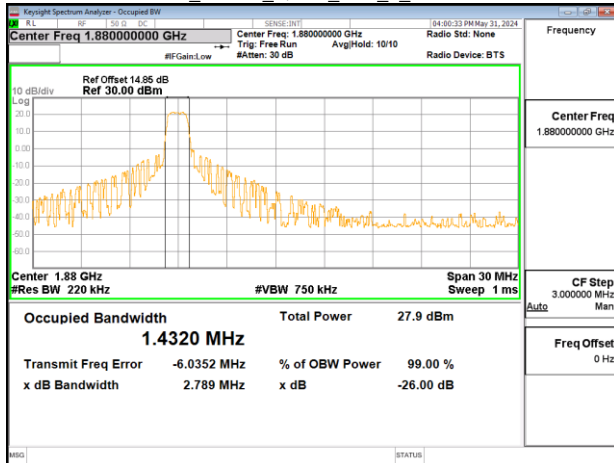
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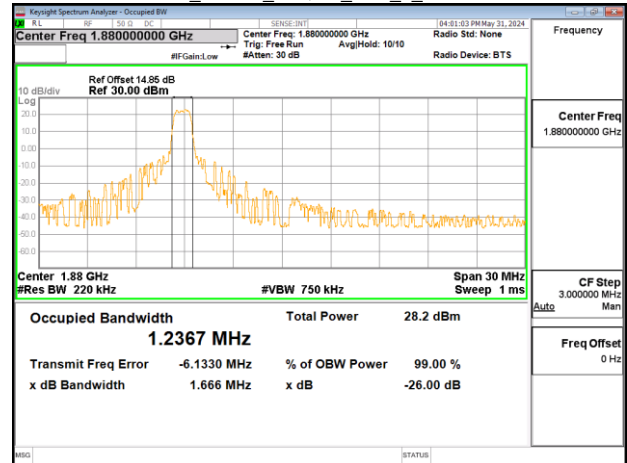
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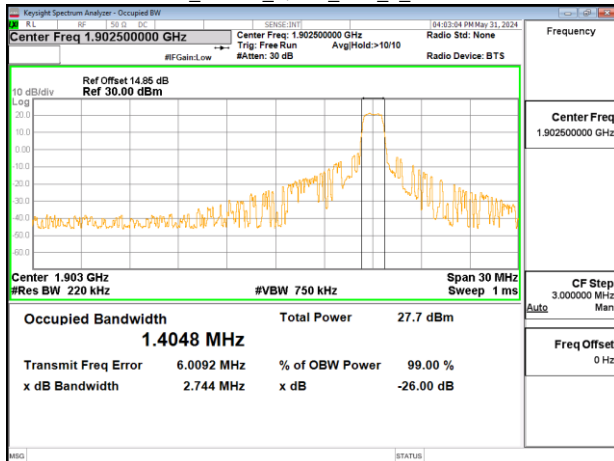
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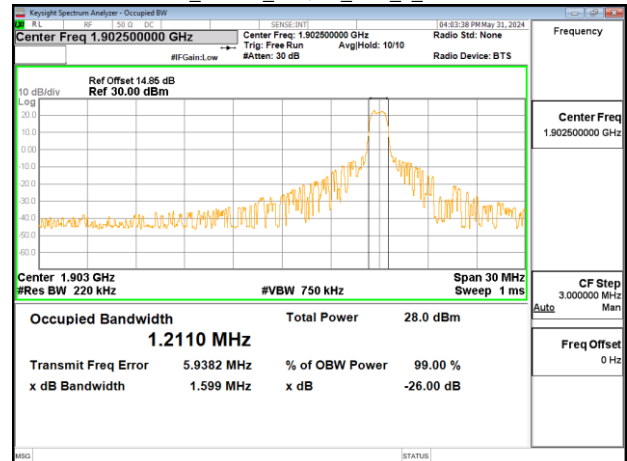
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Band2_15MHz_QPSK_RB6_0_CH19125



Band2_15MHz_16QAM_RB5_0_CH19125

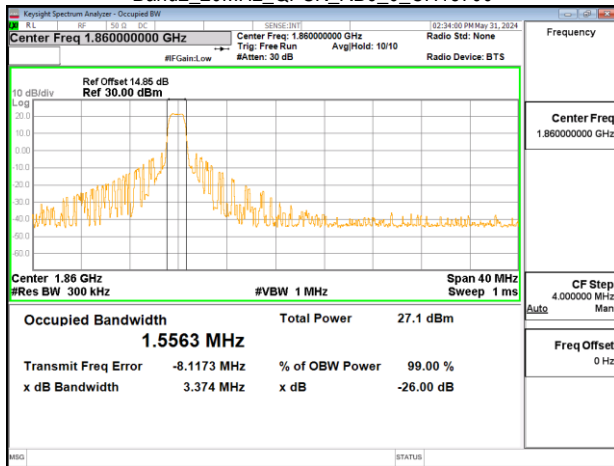


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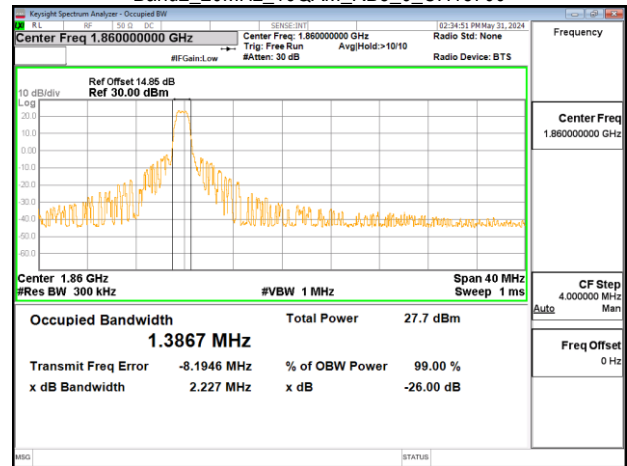
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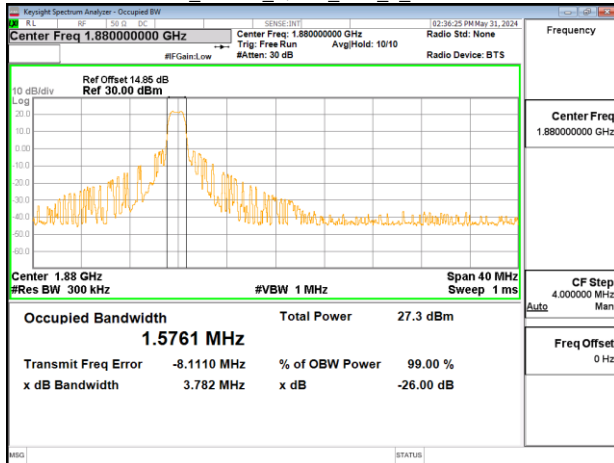
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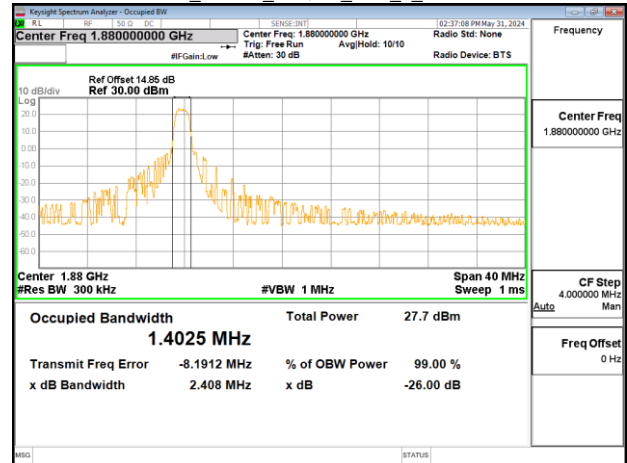
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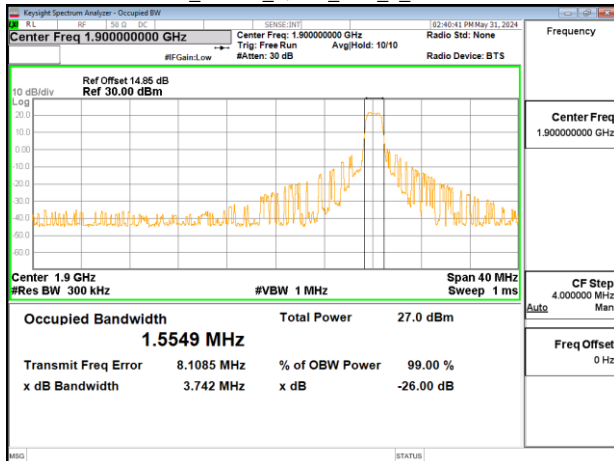
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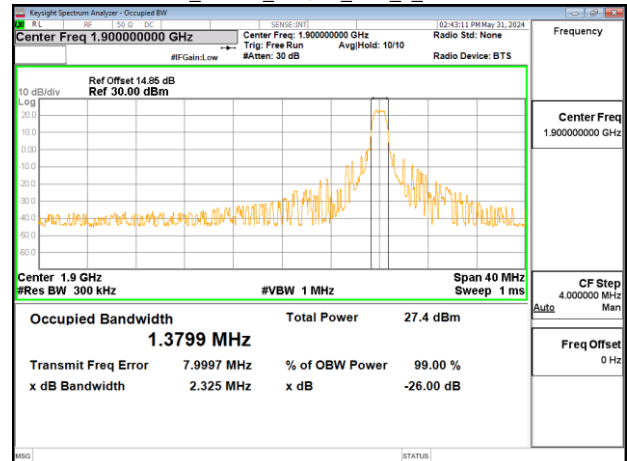
Band2_20MHz_16QAM_RB5_0_CH18900



Band2_20MHz_QPSK_RB6_0_CH19100



Band2_20MHz_16QAM_RB5_0_CH19100

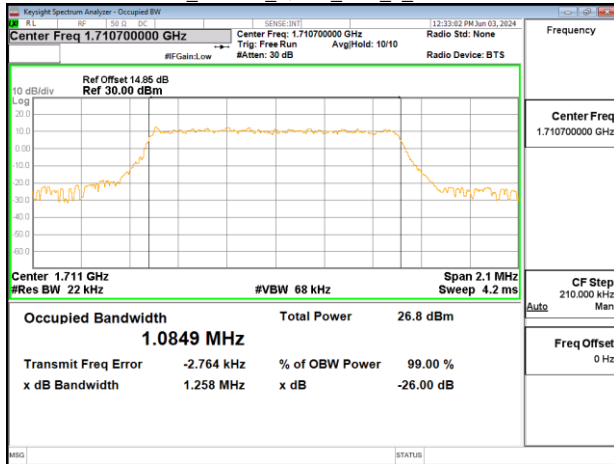


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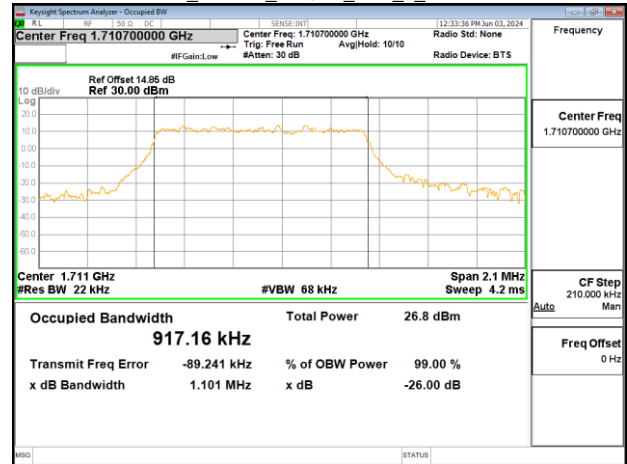
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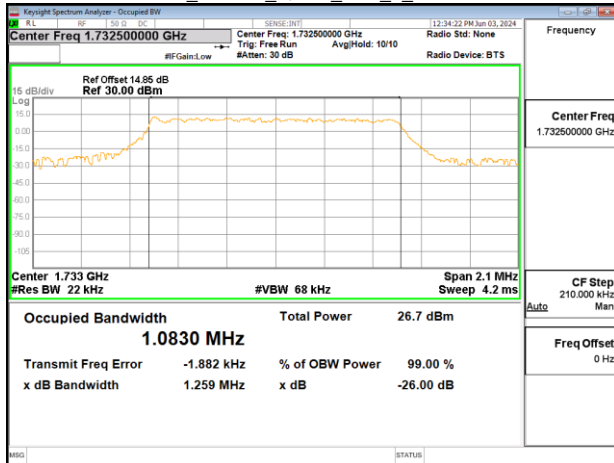
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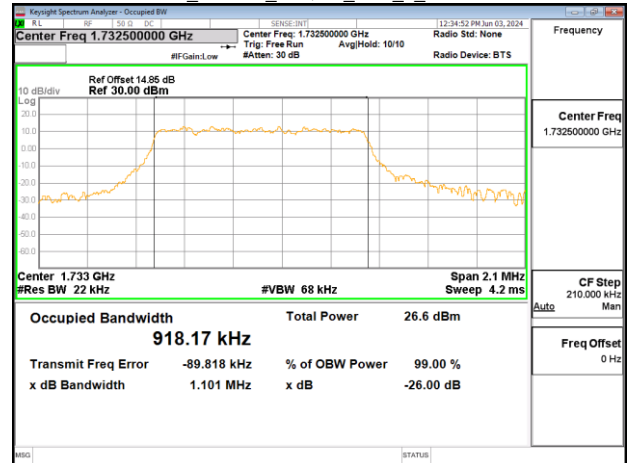
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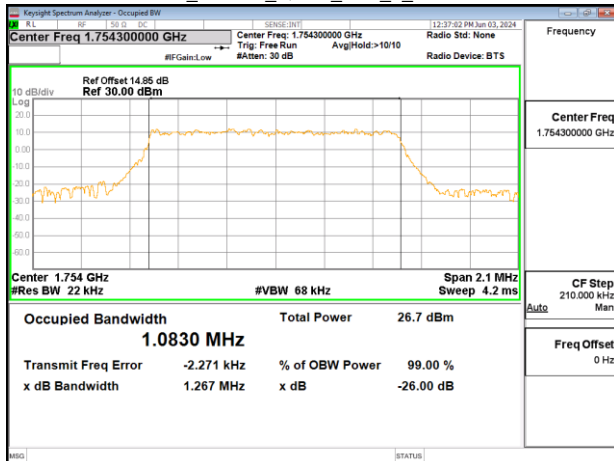
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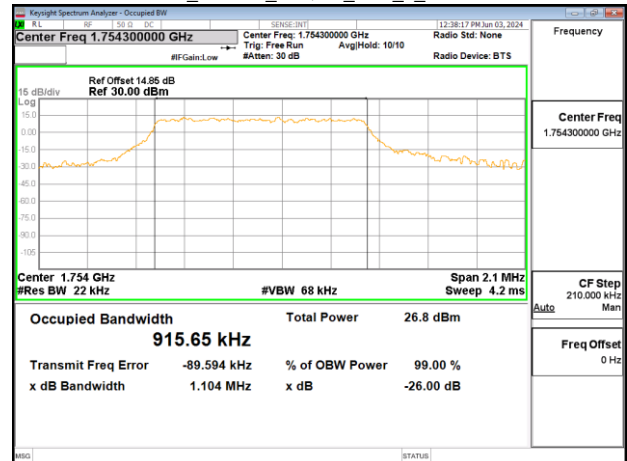
Band4_1.4MHz_16QAM_RB5_0_CH20175



Band4_1.4MHz_QPSK_RB6_0_CH20393



Band4_1.4MHz_16QAM_RB5_0_CH20393

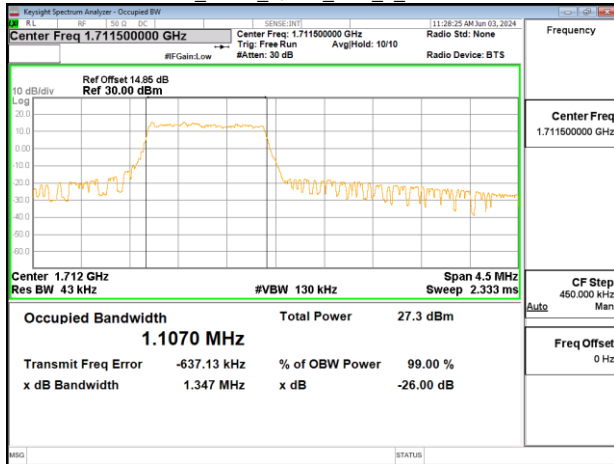


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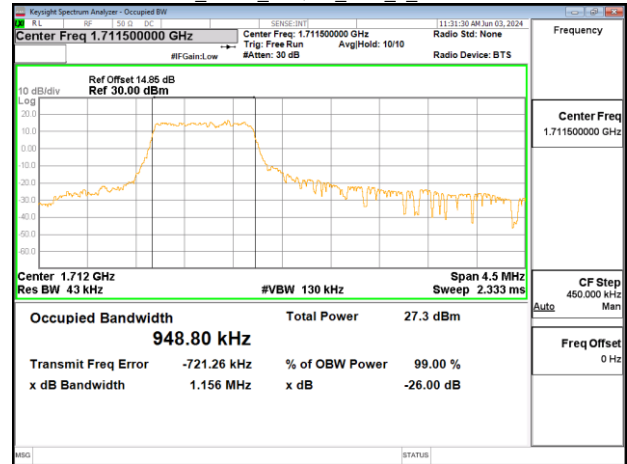
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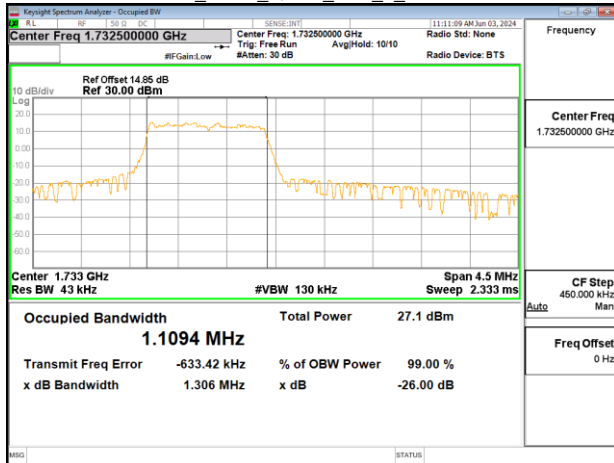
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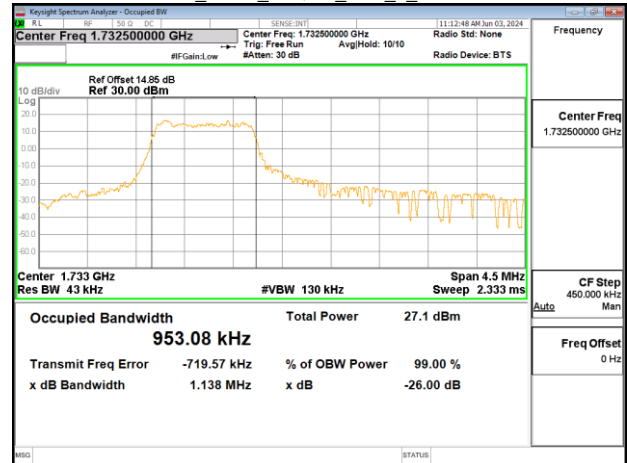
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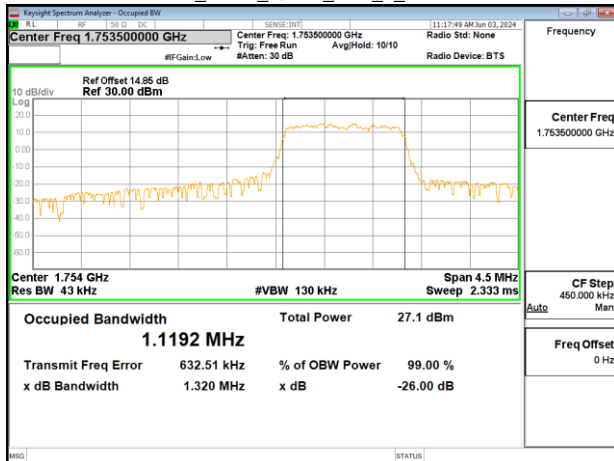
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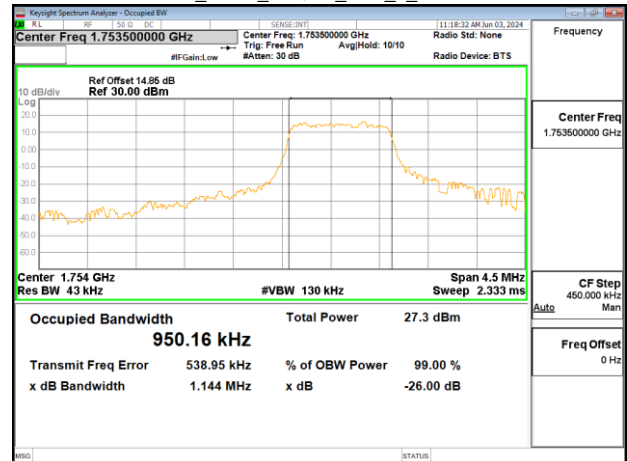
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Band4_3MHz_QPSK_RB6_0_CH20385



Band4_3MHz_16QAM_RB5_0_CH20385

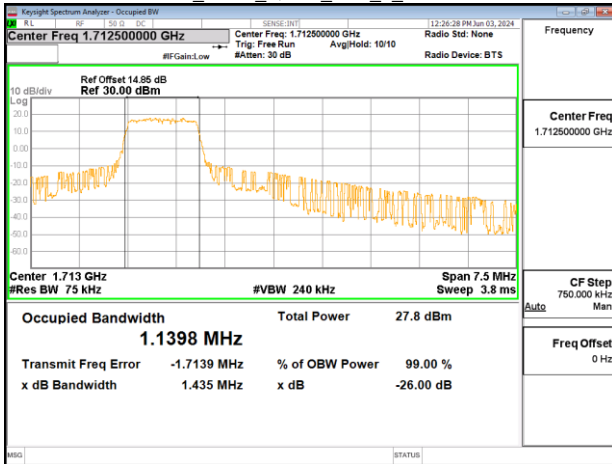


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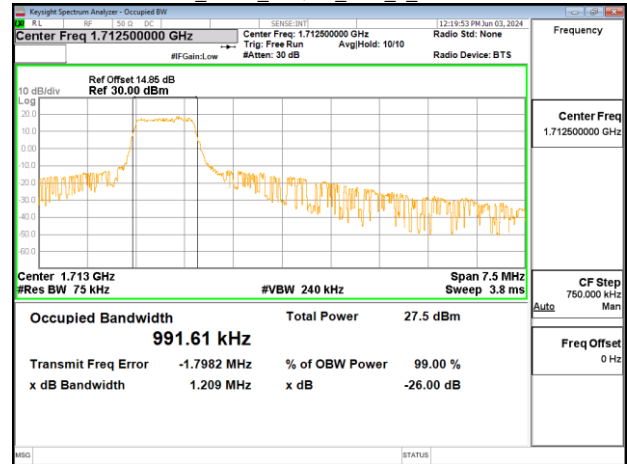
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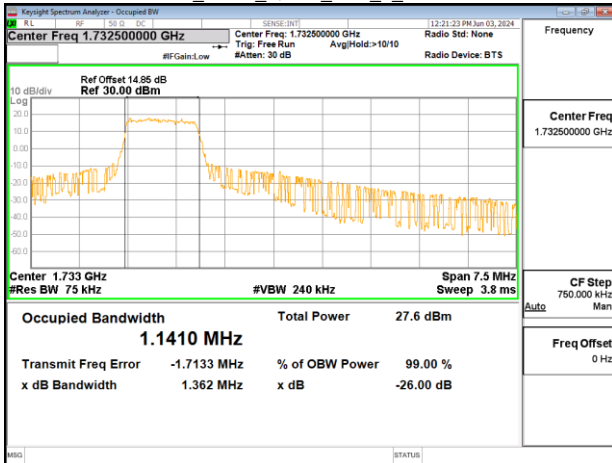
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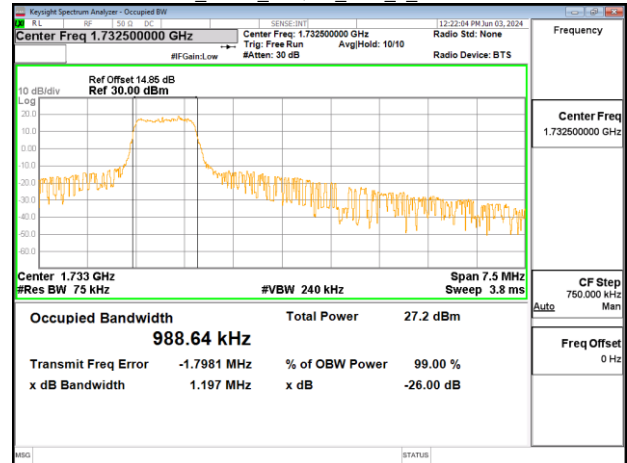
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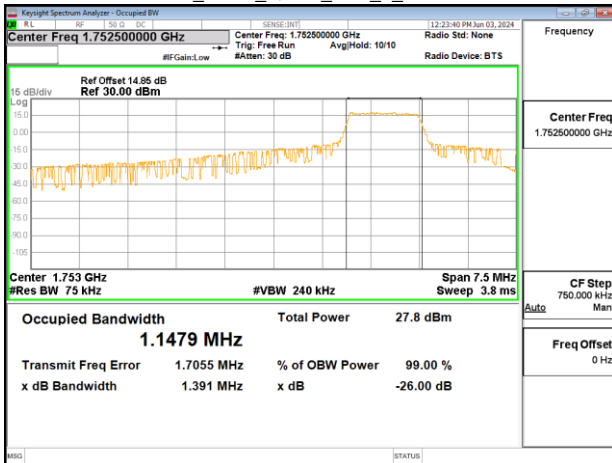
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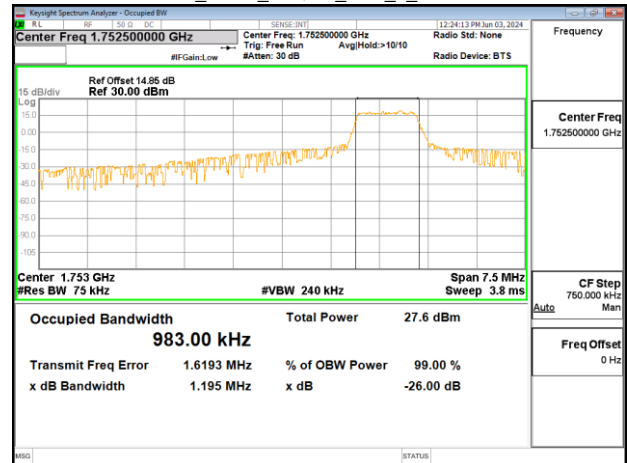
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Band4_5MHz_QPSK_RB6_0_CH20375



Band4_5MHz_16QAM_RB5_0_CH20375

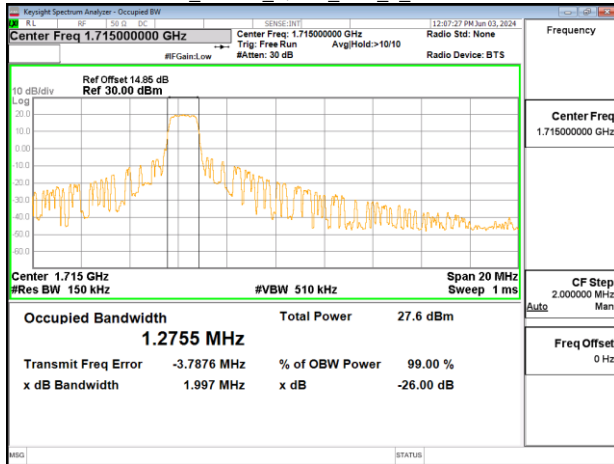


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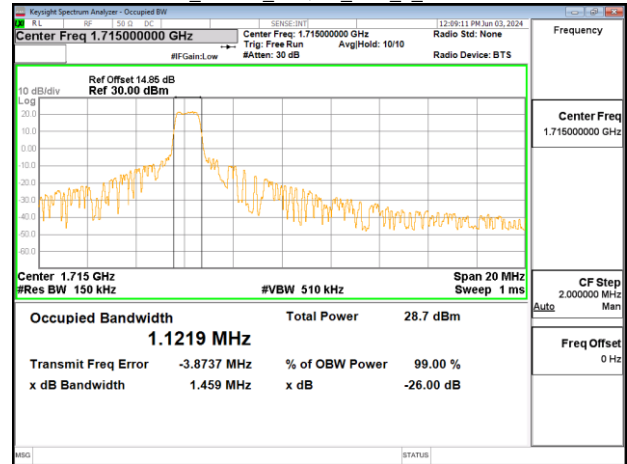
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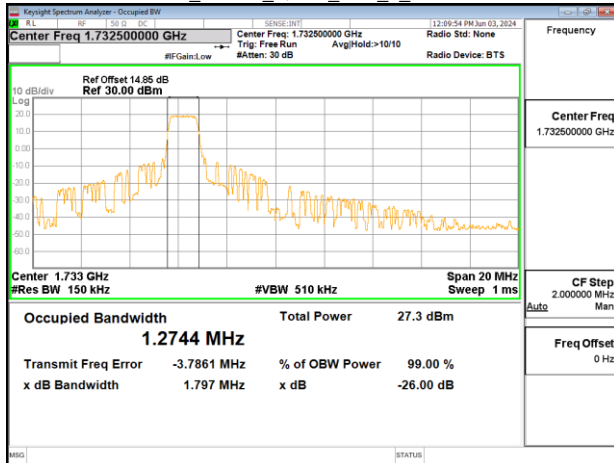
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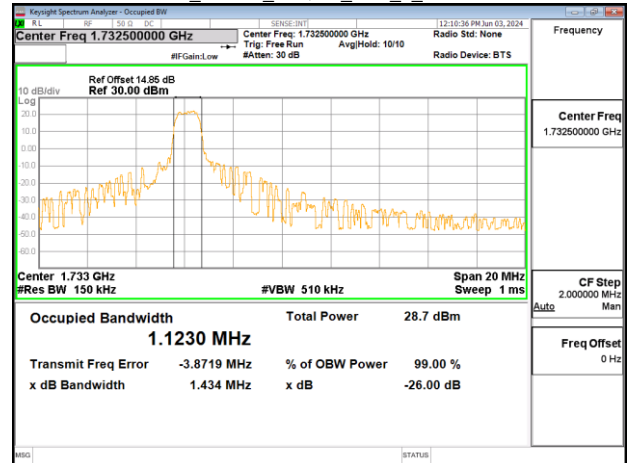
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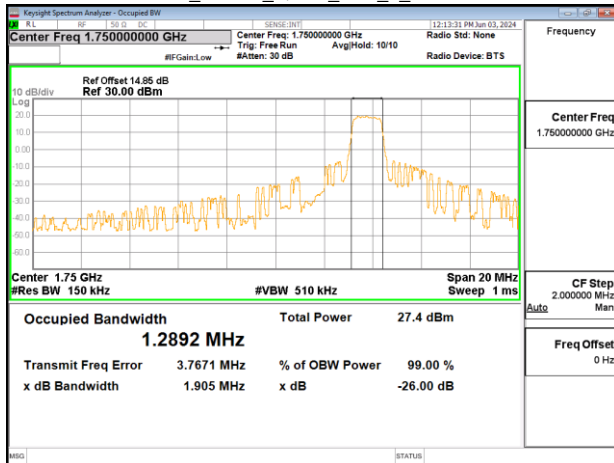
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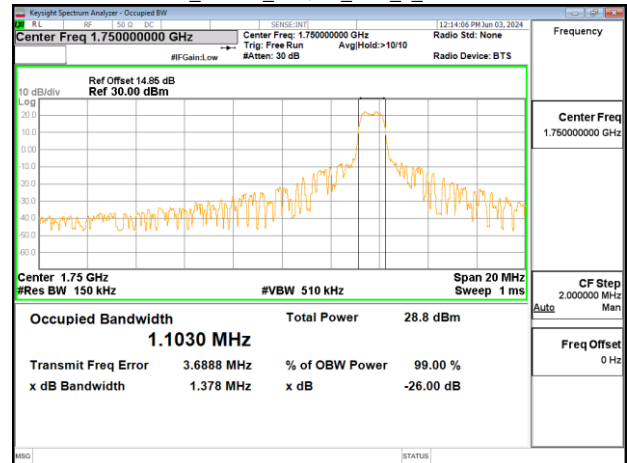
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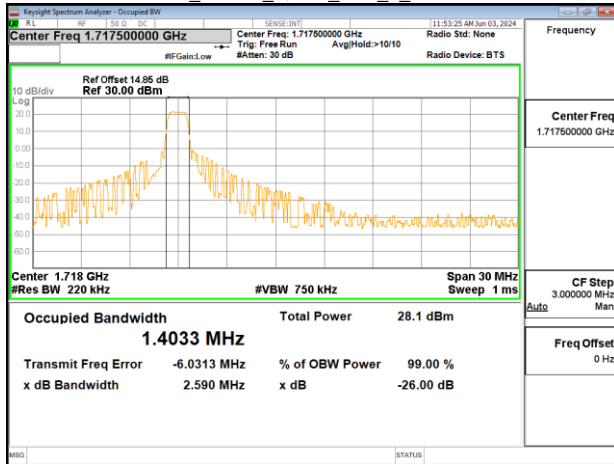


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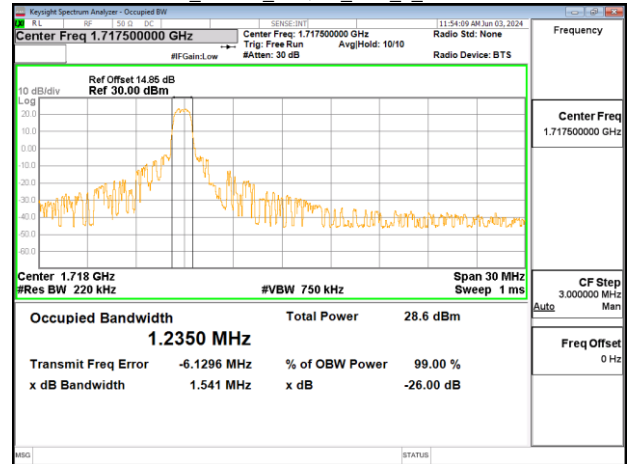
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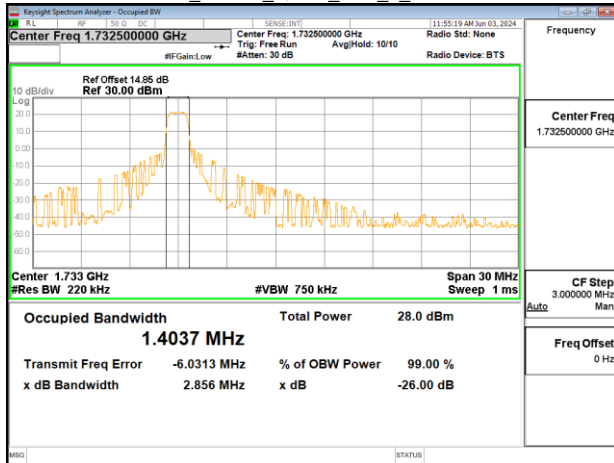
Band4_15MHz_QPSK_RB6_0_CH20025



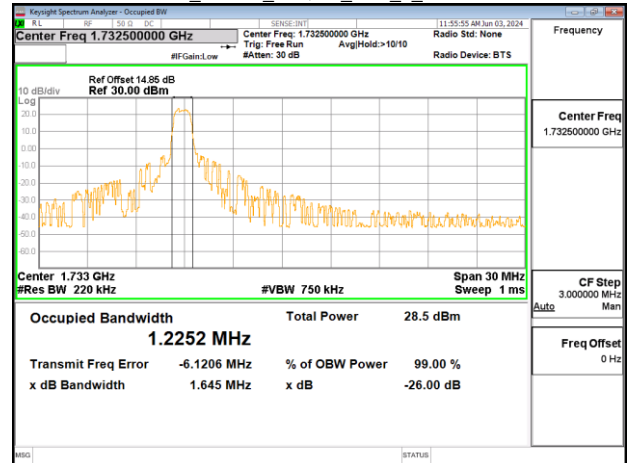
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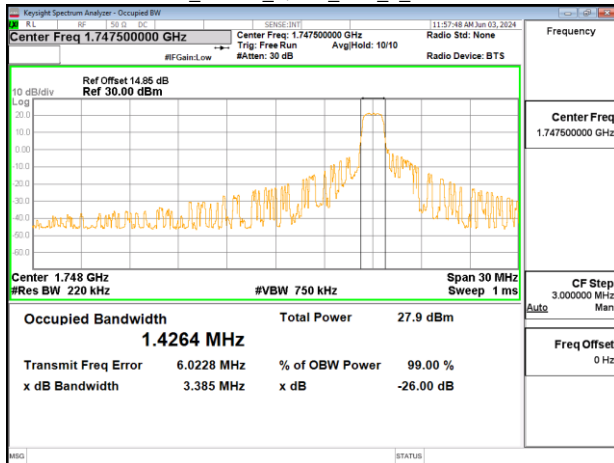
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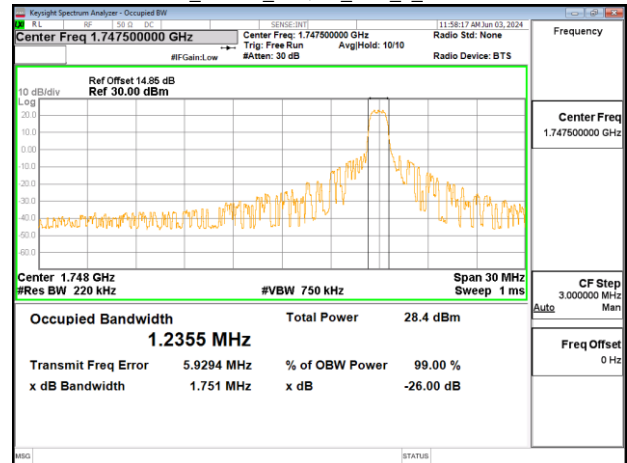
Band4_15MHz_16QAM_RB5_0_CH20175



Band4_15MHz_QPSK_RB6_0_CH20325



Band4_15MHz_16QAM_RB5_0_CH20325



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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