

Appendix D

LTE BAND48

CONDUCTED OUTPUT POWER AND E.I.R.P.

CONDUCTED OUTPUT POWER (dBm)

CA_48C ANT7									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55340	3560	55538	3579.8	QPSK	1	99	1	0	22.73
				16QAM	1	99	1	0	21.96
				64QAM	1	99	1	0	21.01
				256QAM	1	99	1	0	18.00
55891	3615.1	56089	3634.9	QPSK	1	99	1	0	22.31
				16QAM	1	99	1	0	21.53
				64QAM	1	99	1	0	20.73
				256QAM	1	99	1	0	17.61
56442	3670.2	56640	3690	QPSK	1	99	1	0	22.69
				16QAM	1	99	1	0	21.91
				64QAM	1	99	1	0	20.93
				256QAM	1	99	1	0	17.94
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55340	3560	55511	3577.1	QPSK	1	99	1	0	22.62
				16QAM	1	99	1	0	21.91
				64QAM	1	99	1	0	20.88
				256QAM	1	99	1	0	17.95
55916	3617.6	56087	3634.7	QPSK	1	99	1	0	22.30
				16QAM	1	99	1	0	21.40
				64QAM	1	99	1	0	20.68
				256QAM	1	99	1	0	17.49
56491	3675.1	56662	3692.2	QPSK	1	99	1	0	22.54
				16QAM	1	99	1	0	21.88
				64QAM	1	99	1	0	20.80
				256QAM	1	99	1	0	17.83

Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55318	3557.8	55489	3574.9	QPSK	1	74	1	0	22.65
				16QAM	1	74	1	0	21.89
				64QAM	1	74	1	0	20.89
				256QAM	1	74	1	0	17.94
55893	3615.3	56064	3632.4	QPSK	1	74	1	0	22.20
				16QAM	1	74	1	0	21.44
				64QAM	1	74	1	0	20.72
				256QAM	1	74	1	0	17.49
56469	3672.9	56640	3690	QPSK	1	74	1	0	22.54
				16QAM	1	74	1	0	21.77
				64QAM	1	74	1	0	20.89
				256QAM	1	74	1	0	17.92
Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55340	3560	55484	3574.4	QPSK	1	99	1	0	22.63
				16QAM	1	99	1	0	21.87
				64QAM	1	99	1	0	20.94
				256QAM	1	99	1	0	17.92
55941	3620.1	56085	3634.5	QPSK	1	99	1	0	22.19
				16QAM	1	99	1	0	21.51
				64QAM	1	99	1	0	20.63
				256QAM	1	99	1	0	17.53
56541	3680.1	56685	3694.5	QPSK	1	99	1	0	22.62
				16QAM	1	99	1	0	21.84
				64QAM	1	99	1	0	20.92
				256QAM	1	99	1	0	17.80
Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55295	3555.5	55439	3569.9	QPSK	1	49	1	0	22.71
				16QAM	1	49	1	0	21.95
				64QAM	1	49	1	0	20.89
				256QAM	1	49	1	0	17.96
55896	3615.6	56040	3630	QPSK	1	49	1	0	22.28
				16QAM	1	49	1	0	21.43

				64QAM	1	49	1	0	20.61
				256QAM	1	49	1	0	17.50
56496	3675.6	56640	3690	QPSK	1	49	1	0	22.56
				16QAM	1	49	1	0	21.83
				64QAM	1	49	1	0	20.92
				256QAM	1	49	1	0	17.87
Combination 20MHz+5MHz (100RB+25RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55340	3560	55457	3571.7	QPSK	1	99	1	0	22.72
				16QAM	1	99	1	0	21.86
				64QAM	1	99	1	0	20.94
				256QAM	1	99	1	0	17.98
55965	3622.5	56082	3634.2	QPSK	1	99	1	0	22.30
				16QAM	1	99	1	0	21.45
				64QAM	1	99	1	0	20.63
				256QAM	1	99	1	0	17.52
56590	3685	56707	3696.7	QPSK	1	99	1	0	22.63
				16QAM	1	99	1	0	21.77
				64QAM	1	99	1	0	20.81
				256QAM	1	99	1	0	17.85
Combination 5MHz+20MHz (25RB+100RB)									
PCC Channel	PCC Frequency (MHz)	SCC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)
					RB Size	RB offset	RB Size	RB offset	
55273	3553.3	55390	3565	QPSK	1	24	1	0	22.66
				16QAM	1	24	1	0	21.89
				64QAM	1	24	1	0	20.87
				256QAM	1	24	1	0	17.85
55898	3615.8	56015	3627.5	QPSK	1	24	1	0	22.22
				16QAM	1	24	1	0	21.48
				64QAM	1	24	1	0	20.72
				256QAM	1	24	1	0	17.50
56523	3678.3	56640	3690	QPSK	1	24	1	0	22.63
				16QAM	1	24	1	0	21.90
				64QAM	1	24	1	0	20.90
				256QAM	1	24	1	0	17.84

EIRP

CA_48C(Part 96&RSS-192)_Ant 7													
Combination 20MHz+20MHz (100RB+100RB)													
PC C Channel	PCC Frequency (MHz)	SC C Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	ERP (mW)	FCC Limit (dbm)
					RB Size	RB offset	RB Size	RB offset					
553 40	3560	555 38	3579. 8	QPSK	1	99	1	0	22.73	-0.48	22.25	167.88	23
				16QAM	1	99	1	0	21.96	-0.48	21.48	140.60	23
				64QAM	1	99	1	0	21.01	-0.48	20.53	112.98	23
				256QAM	1	99	1	0	18.00	-0.48	17.52	56.49	23
558 91	3615. 1	560 89	3634. 9	QPSK	1	99	1	0	22.31	-0.48	21.83	152.41	23
				16QAM	1	99	1	0	21.53	-0.48	21.05	127.35	23
				64QAM	1	99	1	0	20.73	-0.48	20.25	105.93	23
				256QAM	1	99	1	0	17.61	-0.48	17.13	51.64	23
564 42	3670. 2	566 40	3690	QPSK	1	99	1	0	22.69	-0.48	22.21	166.34	23
				16QAM	1	99	1	0	21.91	-0.48	21.43	139.00	23
				64QAM	1	99	1	0	20.93	-0.48	20.45	110.92	23
				256QAM	1	99	1	0	17.94	-0.48	17.46	55.72	23
Combination 20MHz+15MHz (100RB+75RB)													
PC C Channel	PCC Frequency (MHz)	SC C Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	ERP (mW)	FCC Limit (dbm)
					RB Size	RB offset	RB Size	RB offset					

553 40	3560	555 11	3577. 1	QPS K	1	99	1	0	22.6 2	- 0. 48	22. 14	163 .68	23
				16QA M	1	99	1	0	21.9 1	- 0. 48	21. 43	139 .00	23
				64QA M	1	99	1	0	20.8 8	- 0. 48	20. 40	109 .65	23
				256Q AM	1	99	1	0	17.9 5	- 0. 48	17. 47	55. 85	23
559 16	3617. 6	560 87	3634. 7	QPS K	1	99	1	0	22.3 0	- 0. 48	21. 82	152 .05	23
				16QA M	1	99	1	0	21.4 0	- 0. 48	20. 92	123 .59	23
				64QA M	1	99	1	0	20.6 8	- 0. 48	20. 20	104 .71	23
				256Q AM	1	99	1	0	17.4 9	- 0. 48	17. 01	50. 23	23
564 91	3675. 1	566 62	3692. 2	QPS K	1	99	1	0	22.5 4	- 0. 48	22. 06	160 .69	23
				16QA M	1	99	1	0	21.8 8	- 0. 48	21. 40	138 .04	23
				64QA M	1	99	1	0	20.8 0	- 0. 48	20. 32	107 .65	23
				256Q AM	1	99	1	0	17.8 3	- 0. 48	17. 35	54. 33	23
Combination 15MHz+20MHz (75RB+100RB)													
PC C Cha nnel	PCC Frequ ency (MHz)	SC C Cha nnel	SCC Frequ ency (MHz)	Modul ation	PCC		SCC		Meas ured Pow er (dBm)	G ai n (d Bi)	EI RP (d Bm)	ER P (m W)	FCC Limit (db m)
					RB Size	RB offse t	RB Size	RB offse t					
553 18	3557. 8	554 89	3574. 9	QPS K	1	74	1	0	22.6 5	- 0. 48	22. 17	164 .82	23
				16QA M	1	74	1	0	21.8 9	- 0. 48	21. 41	138 .36	23
				64QA M	1	74	1	0	20.8 9	- 0. 48	20. 41	109 .90	23
				256Q AM	1	74	1	0	17.9 4	- 0. 48	17. 46	55. 72	23

55893	3615.3	56064	3632.4	QPSK	1	74	1	0	22.20	-0.48	21.72	148.59	23
				16QAM	1	74	1	0	21.44	-0.48	20.96	124.74	23
				64QAM	1	74	1	0	20.72	-0.48	20.24	105.68	23
				256QAM	1	74	1	0	17.49	-0.48	17.01	50.23	23
56469	3672.9	56640	3690	QPSK	1	74	1	0	22.54	-0.48	22.06	160.69	23
				16QAM	1	74	1	0	21.77	-0.48	21.29	134.59	23
				64QAM	1	74	1	0	20.89	-0.48	20.41	109.90	23
				256QAM	1	74	1	0	17.92	-0.48	17.44	55.46	23
Combination 20MHz+10MHz (100RB+50RB)													
PC Channel	PCC Frequency (MHz)	SC Channel	SCC Frequency (MHz)	Modulation	PCC		SCC		Measured Power (dBm)	Gain (dBi)	EIRP (dBm)	ERP (mW)	FCC Limit (dbm)
RB Size	RB offset	RB Size	RB offset										
55340	3560	55484	3574.4	QPSK	1	99	1	0	22.63	-0.48	22.15	164.06	23
				16QAM	1	99	1	0	21.87	-0.48	21.39	137.72	23
				64QAM	1	99	1	0	20.94	-0.48	20.46	111.17	23
				256QAM	1	99	1	0	17.92	-0.48	17.44	55.46	23
55941	3620.1	56085	3634.5	QPSK	1	99	1	0	22.19	-0.48	21.71	148.25	23
				16QAM	1	99	1	0	21.51	-0.48	21.03	126.77	23
				64QAM	1	99	1	0	20.63	-0.48	20.15	103.51	23
				256QAM	1	99	1	0	17.53	-0.48	17.05	50.70	23

565 41	3680. 1	566 85	3694. 5	QPS K	1	99	1	0	22.6 2	- 0. 48	22. 14	163 .68	23
				16QA M	1	99	1	0	21.8 4	- 0. 48	21. 36	136 .77	23
				64QA M	1	99	1	0	20.9 2	- 0. 48	20. 44	110 .66	23
				256Q AM	1	99	1	0	17.8 0	- 0. 48	17. 32	53. 95	23
Combination 10MHz+20MHz (50RB+100RB)													
PC C Cha nnel	PCC Frequ ency (MHz)	SC C Cha nnel	SCC Frequ ency (MHz)	Modul ation	PCC		SCC		Meas ured Pow er (dBm)	G ai n (d Bi)	EI RP (d Bm)	ER P (m W)	FCC Limit (db m)
					RB Size	RB offse t	RB Size	RB offse t					
552 95	3555. 5	554 39	3569. 9	QPS K	1	49	1	0	22.7 1	- 0. 48	22. 23	167 .11	23
				16QA M	1	49	1	0	21.9 5	- 0. 48	21. 47	140 .28	23
				64QA M	1	49	1	0	20.8 9	- 0. 48	20. 41	109 .90	23
				256Q AM	1	49	1	0	17.9 6	- 0. 48	17. 48	55. 98	23
558 96	3615. 6	560 40	3630	QPS K	1	49	1	0	22.2 8	- 0. 48	21. 80	151 .36	23
				16QA M	1	49	1	0	21.4 3	- 0. 48	20. 95	124 .45	23
				64QA M	1	49	1	0	20.6 1	- 0. 48	20. 13	103 .04	23
				256Q AM	1	49	1	0	17.5 0	- 0. 48	17. 02	50. 35	23
564 96	3675. 6	566 40	3690	QPS K	1	49	1	0	22.5 6	- 0. 48	22. 08	161 .44	23
				16QA M	1	49	1	0	21.8 3	- 0. 48	21. 35	136 .46	23
				64QA M	1	49	1	0	20.9 2	- 0. 48	20. 44	110 .66	23
				256Q AM	1	49	1	0	17.8 7	- 0. 48	17. 39	54. 83	23

Combination 20MHz+5MHz (100RB+25RB)													
PC C Cha nnel	PCC Fre qu ency (MHz)	SC C Cha nnel	SCC Fre qu ency (MHz)	Mod ulation	PCC		SCC		Meas ured Pow er (dBm)	G ai n (d Bi)	EI RP (d Bm)	ER P (m W)	FCC Limit (db m)
					RB Size	RB offse t	RB Size	RB offse t					
553 40	3560	554 57	3571. 7	QPS K	1	99	1	0	22.7 2	- 0.48	22. 24	167 .49	23
				16QA M	1	99	1	0	21.8 6	- 0.48	21. 38	137 .40	23
				64QA M	1	99	1	0	20.9 4	- 0.48	20. 46	111 .17	23
				256Q AM	1	99	1	0	17.9 8	- 0.48	17. 50	56. 23	23
559 65	3622. 5	560 82	3634. 2	QPS K	1	99	1	0	22.3 0	- 0.48	21. 82	152 .05	23
				16QA M	1	99	1	0	21.4 5	- 0.48	20. 97	125 .03	23
				64QA M	1	99	1	0	20.6 3	- 0.48	20. 15	103 .51	23
				256Q AM	1	99	1	0	17.5 2	- 0.48	17. 04	50. 58	23
565 90	3685	567 07	3696. 7	QPS K	1	99	1	0	22.6 3	- 0.48	22. 15	164 .06	23
				16QA M	1	99	1	0	21.7 7	- 0.48	21. 29	134 .59	23
				64QA M	1	99	1	0	20.8 1	- 0.48	20. 33	107 .89	23
				256Q AM	1	99	1	0	17.8 5	- 0.48	17. 37	54. 58	23
Combination 5MHz+20MHz (25RB+100RB)													
PC C Cha nnel	PCC Fre qu ency (MHz)	SC C Cha nnel	SCC Fre qu ency (MHz)	Mod ulation	PCC		SCC		Meas ured Pow er (dBm)	G ai n (d Bi)	EI RP (d Bm)	ER P (m W)	FCC Limit (db m)
					RB Size	RB offse t	RB Size	RB offse t					
552 73	3553. 3	553 90	3565	QPS K	1	24	1	0	22.6 6	- 0.48	22. 18	165 .20	23

				16QA M	1	24	1	0	21.8 9	- 0. 48	21. 41	138 .36	23
				64QA M	1	24	1	0	20.8 7	- 0. 48	20. 39	109 .40	23
				256Q AM	1	24	1	0	17.8 5	- 0. 48	17. 37	54. 58	23
558 98	3615. 8	560 15	3627. 5	QPS K	1	24	1	0	22.2 2	- 0. 48	21. 74	149 .28	23
				16QA M	1	24	1	0	21.4 8	- 0. 48	21. 00	125 .89	23
				64QA M	1	24	1	0	20.7 2	- 0. 48	20. 24	105 .68	23
				256Q AM	1	24	1	0	17.5 0	- 0. 48	17. 02	50. 35	23
565 23	3678. 3	566 40	3690	QPS K	1	24	1	0	22.6 3	- 0. 48	22. 15	164 .06	23
				16QA M	1	24	1	0	21.9 0	- 0. 48	21. 42	138 .68	23
				64QA M	1	24	1	0	20.9 0	- 0. 48	20. 42	110 .15	23
				256Q AM	1	24	1	0	17.8 4	- 0. 48	17. 36	54. 45	23

Note: The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).

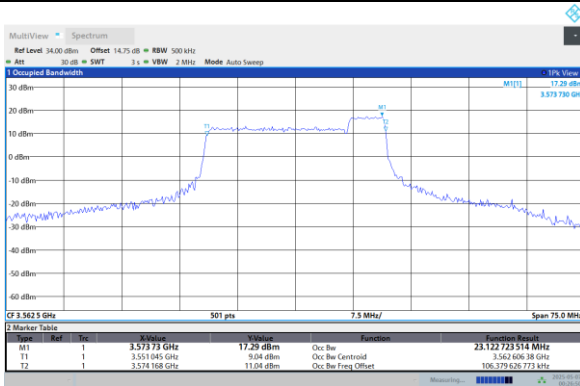
26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
48-48	20MHz-5MHz	QPSK-QPSK	55340-55457	100RB#0-25RB#0	23.123	25.18	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55965-56082	100RB#0-25RB#0	23.142	24.95	PASS
48-48	20MHz-5MHz	QPSK-QPSK	56590-56707	100RB#0-25RB#0	23.144	24.57	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55340-55457	100RB#0-25RB#0	23.090	24.50	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55965-56082	100RB#0-25RB#0	23.063	24.57	PASS
48-48	20MHz-5MHz	16QAM-16QAM	56590-56707	100RB#0-25RB#0	23.074	24.65	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55340-55484	100RB#0-50RB#0	27.924	30.21	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55941-56064	100RB#0-50RB#0	27.921	29.85	PASS
48-48	20MHz-10MHz	QPSK-QPSK	56541-56685	100RB#0-50RB#0	27.947	29.94	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55340-55484	100RB#0-50RB#0	27.928	29.67	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55941-56064	100RB#0-50RB#0	27.937	29.85	PASS
48-48	20MHz-10MHz	16QAM-16QAM	56541-56685	100RB#0-50RB#0	27.918	30.21	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55340-55511	100RB#0-75RB#0	32.757	35.03	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55916-56087	100RB#0-75RB#0	32.787	35.35	PASS
48-48	20MHz-15MHz	QPSK-QPSK	56491-56662	100RB#0-75RB#0	32.784	34.93	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55340-55511	100RB#0-75RB#0	32.785	34.72	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55916-56087	100RB#0-75RB#0	32.875	35.03	PASS
48-48	20MHz-15MHz	16QAM-16QAM	56491-56662	100RB#0-75RB#0	32.827	34.72	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55273-55390	25RB#0-100RB#0	23.144	25.25	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55898-56015	25RB#0-100RB#0	23.131	24.88	PASS
48-48	5MHz-20MHz	QPSK-QPSK	56523-56640	25RB#0-100RB#0	23.130	25.02	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55273-55390	25RB#0-100RB#0	23.130	24.50	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55898-56015	25RB#0-100RB#0	23.117	24.73	PASS
48-48	5MHz-20MHz	16QAM-16QAM	56523-56640	25RB#0-100RB#0	23.098	24.500	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	50RB#0-100RB#0	27.929	30.39	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	50RB#0-100RB#0	27.899	29.94	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	50RB#0-100RB#0	27.936	29.67	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	50RB#0-100RB#0	27.899	29.94	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	50RB#0-100RB#0	27.896	29.49	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	50RB#0-100RB#0	27.908	29.67	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	75RB#0-100RB#0	32.792	35.03	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55893-56064	75RB#0-100RB#0	32.809	34.93	PASS
48-48	15MHz-20MHz	QPSK-QPSK	56469-56640	75RB#0-100RB#0	32.788	34.93	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55318-55489	75RB#0-100RB#0	32.797	34.72	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55893-56064	75RB#0-100RB#0	32.787	35.56	PASS
48-48	15MHz-20MHz	16QAM-16QAM	56469-56640	75RB#0-100RB#0	32.792	35.24	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	37.711	39.80	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	37.737	39.92	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	37.732	40.64	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	37.685	39.92	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	37.676	40.28	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	37.712	39.80	PASS

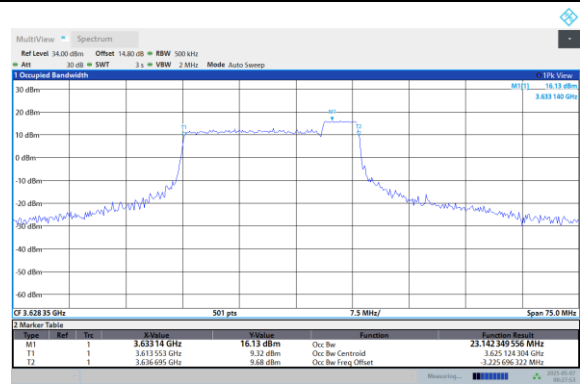
TEST GRAPHS

Occupied Bandwidth

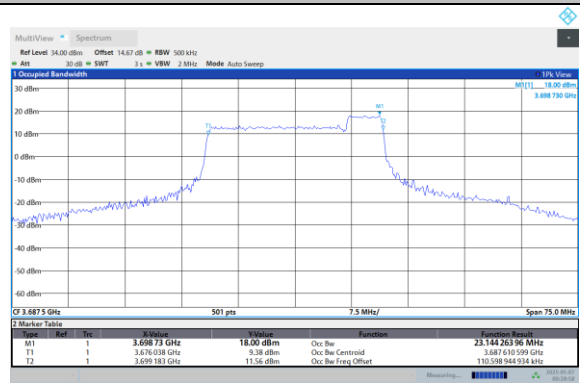
48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-
100RB#0-25RB#0-PASS



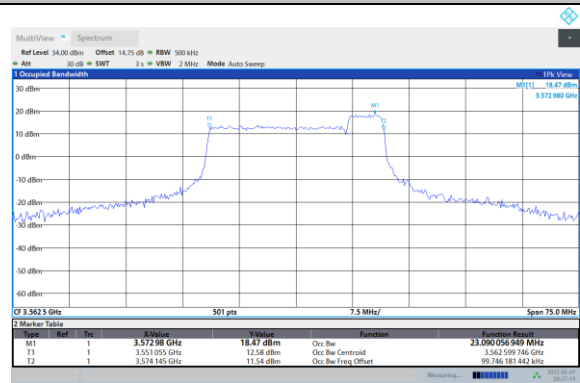
48-48-20MHz-5MHz-QPSK-QPSK-55965-56082-
100RB#0-25RB#0-PASS



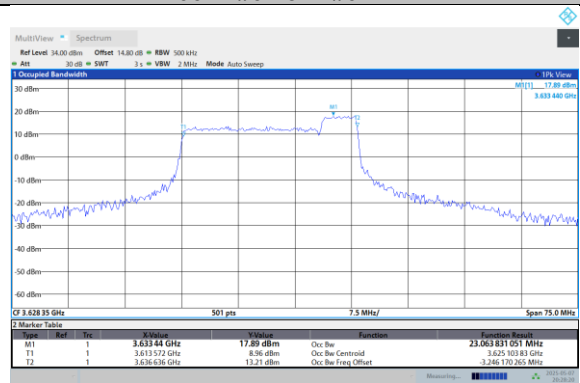
48-48-20MHz-5MHz-QPSK-QPSK-56590-56707-
100RB#0-25RB#0-PASS



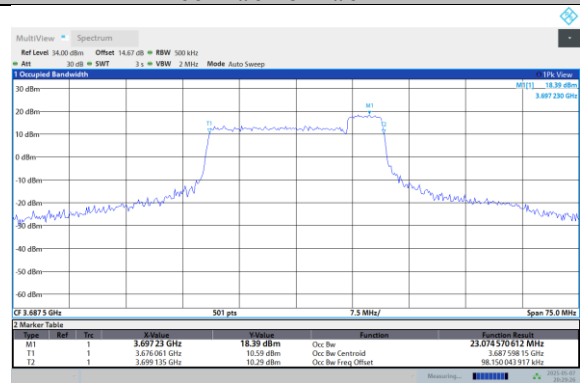
48-48-20MHz-5MHz-16QAM-16QAM-55340-55457-
100RB#0-25RB#0-PASS



48-48-20MHz-5MHz-16QAM-16QAM-55965-56082-
100RB#0-25RB#0-PASS



48-48-20MHz-5MHz-16QAM-16QAM-56590-56707-
100RB#0-25RB#0-PASS

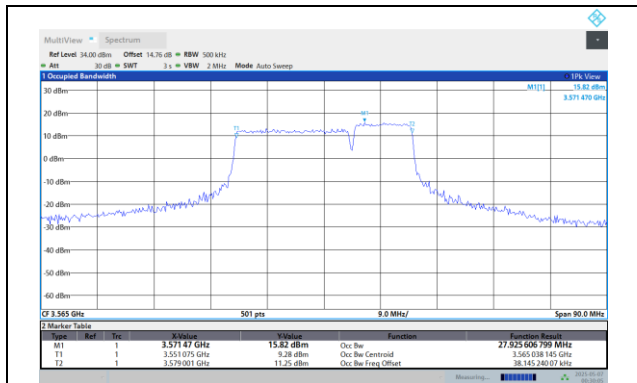


48-48-20MHz-10MHz-QPSK-QPSK-55340-55484-
100RB#0-50RB#0-PASS

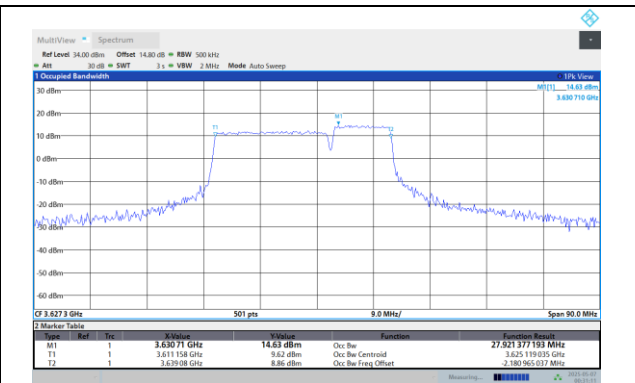


48-48-20MHz-10MHz-QPSK-QPSK-55941-56064-
100RB#0-50RB#0-PASS

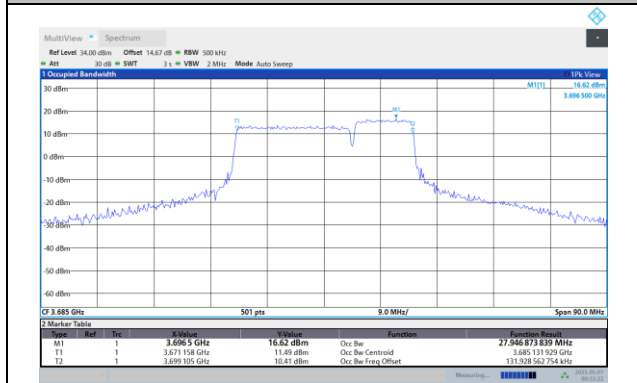




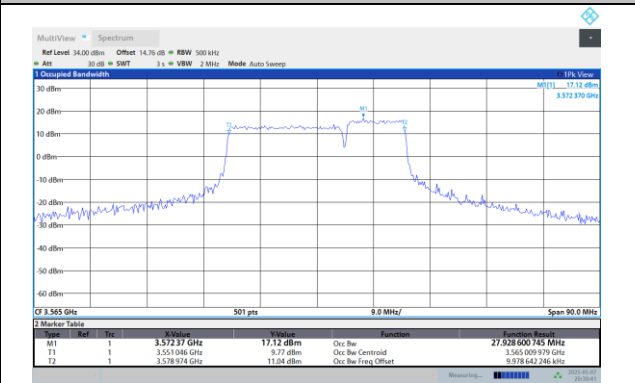
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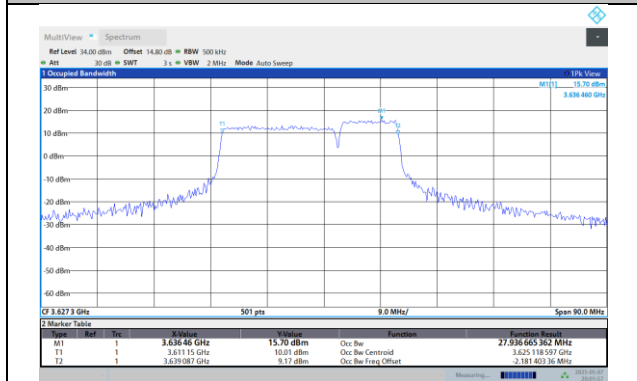
48-48-20MHz-10MHz-16QAM-16QAM-55340-55484-100RB#0-50RB#0-PASS



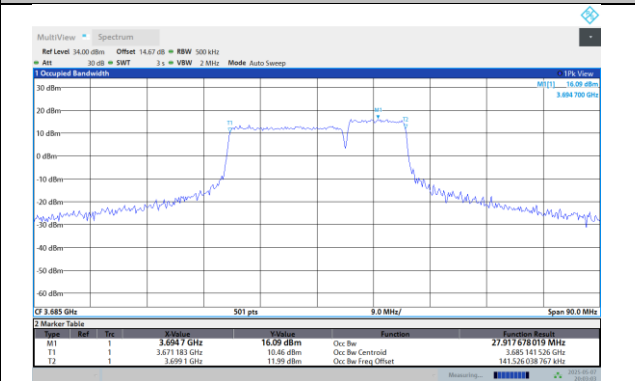
48-48-20MHz-10MHz-16QAM-16QAM-55941-56064-100RB#0-50RB#0-PASS



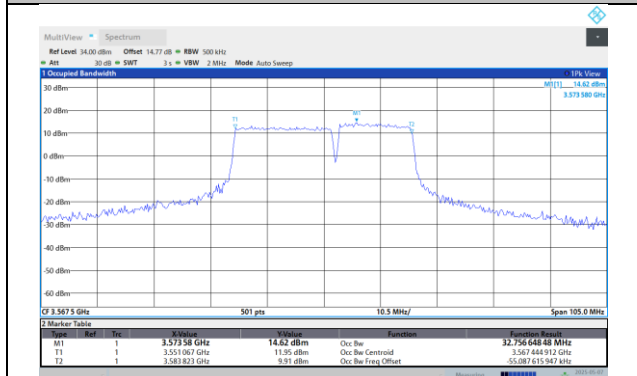
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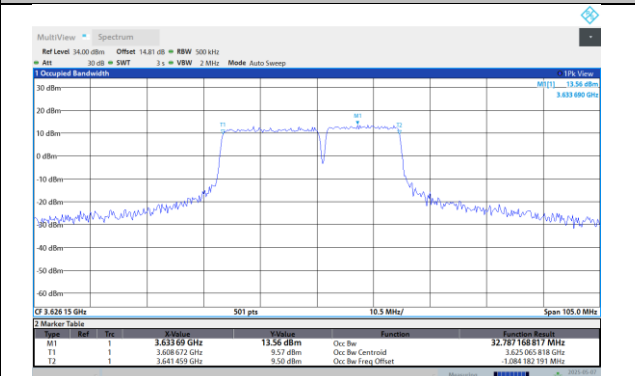
48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-100RB#0-75RB#0-PASS



48-48-20MHz-15MHz-QPSK-QPSK-55916-56087-100RB#0-75RB#0-PASS

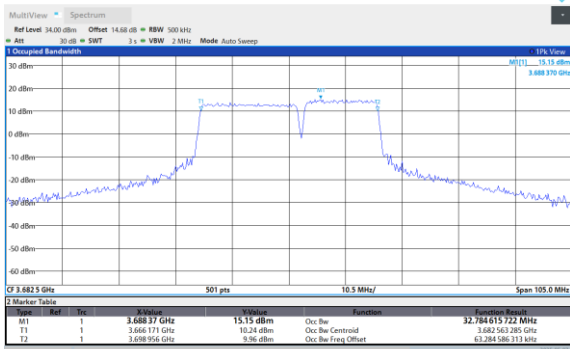


48-48-20MHz-15MHz-QPSK-QPSK-56491-56662-100RB#0-75RB#0-PASS

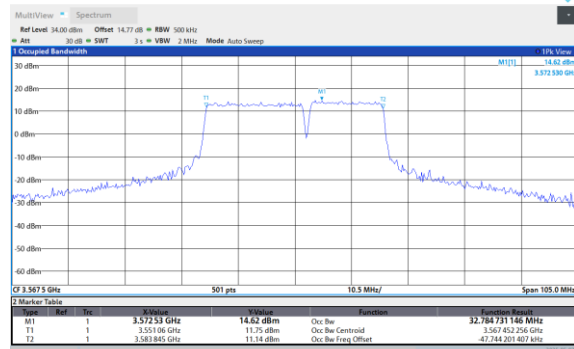


48-48-20MHz-15MHz-16QAM-16QAM-55340-55511-100RB#0-75RB#0-PASS

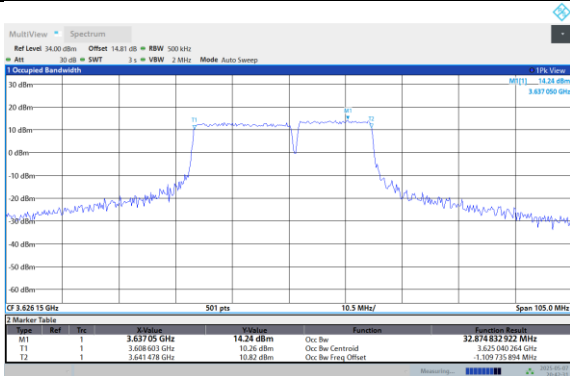
100RB#0-75RB#0-PASS



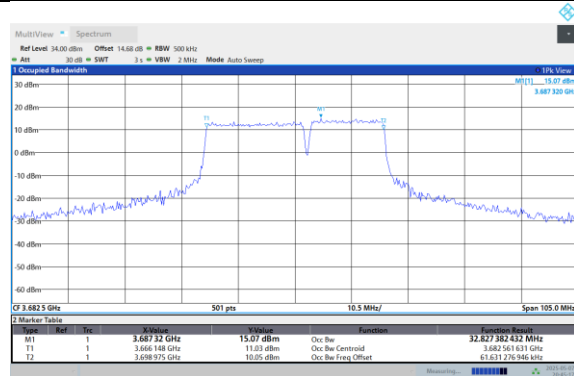
100RB#0-75RB#0-PASS



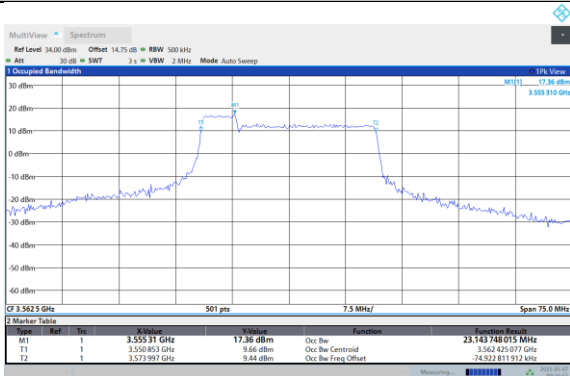
48-48-20MHz-15MHz-16QAM-16QAM-55916-56087-100RB#0-75RB#0-PASS



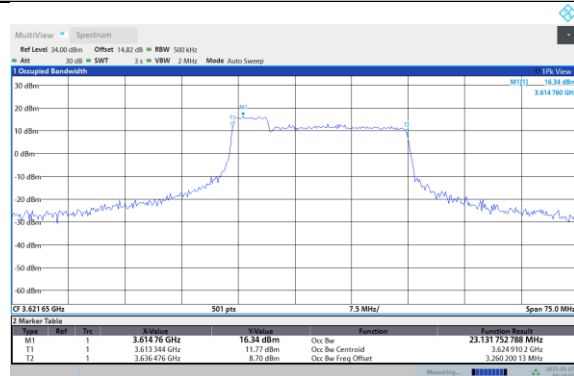
48-48-20MHz-15MHz-16QAM-16QAM-56491-56662-100RB#0-75RB#0-PASS



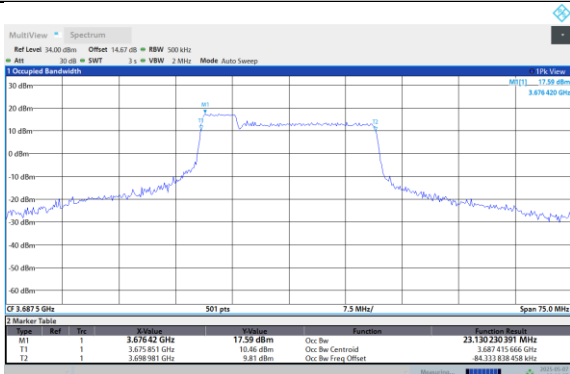
48-48-5MHz-20MHz-QPSK-QPSK-55273-55390-25RB#0-100RB#0-PASS



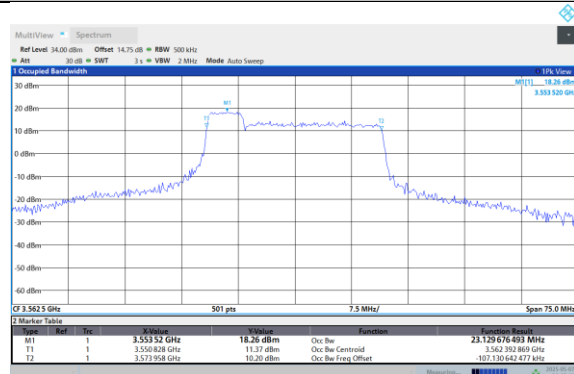
48-48-5MHz-20MHz-QPSK-QPSK-55898-56015-25RB#0-100RB#0-PASS



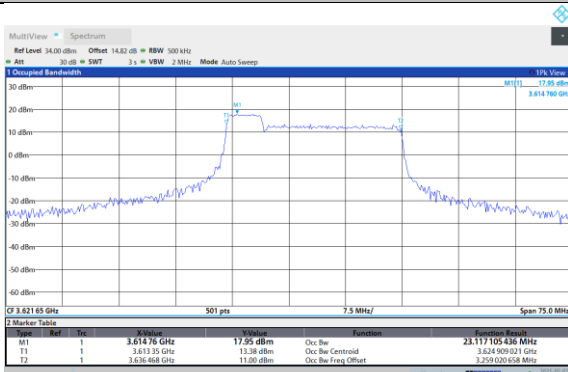
48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-25RB#0-100RB#0-PASS



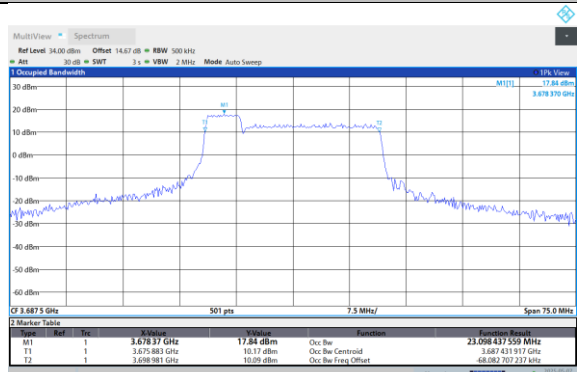
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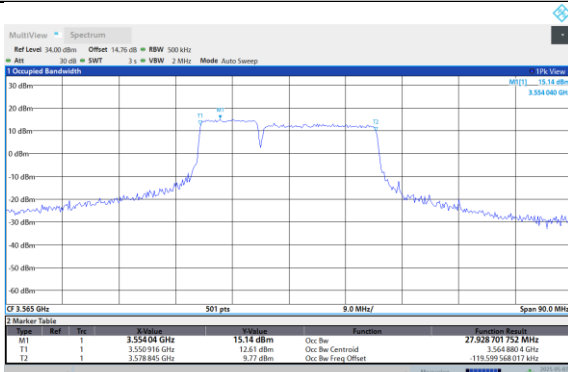
48-48-5MHz-20MHz-16QAM-16QAM-55898-56015-25RB#0-100RB#0-PASS



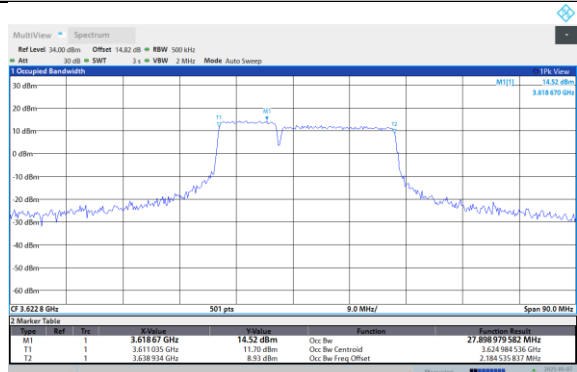
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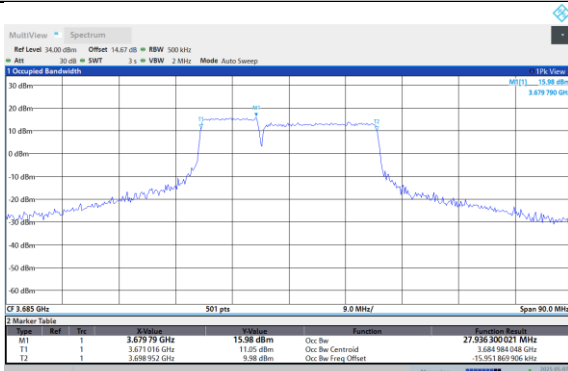
48-48-10MHz-20MHz-QPSK-QPSK-55295-55439-50RB#0-100RB#0-PASS



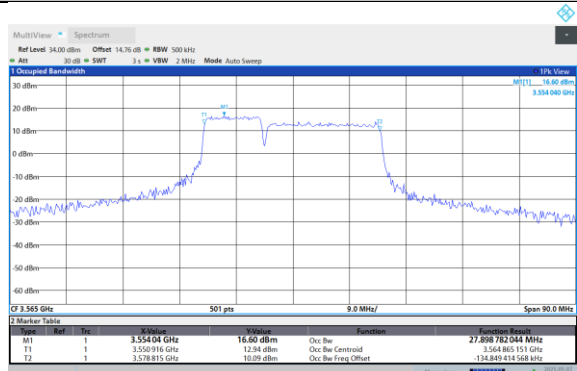
48-48-10MHz-20MHz-QPSK-QPSK-55896-56040-50RB#0-100RB#0-PASS



48-48-10MHz-20MHz-QPSK-QPSK-56496-56640-50RB#0-100RB#0-PASS

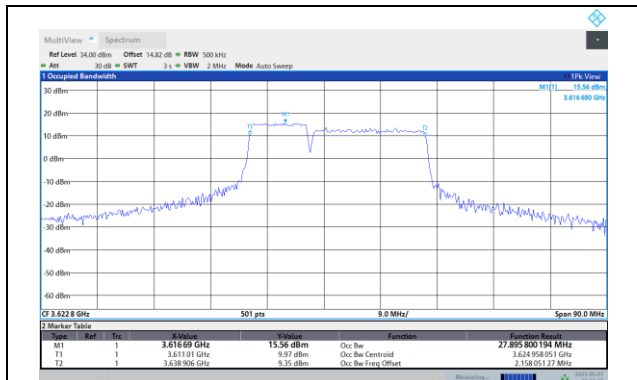


48-48-10MHz-20MHz-16QAM-16QAM-55295-55439-50RB#0-100RB#0-PASS

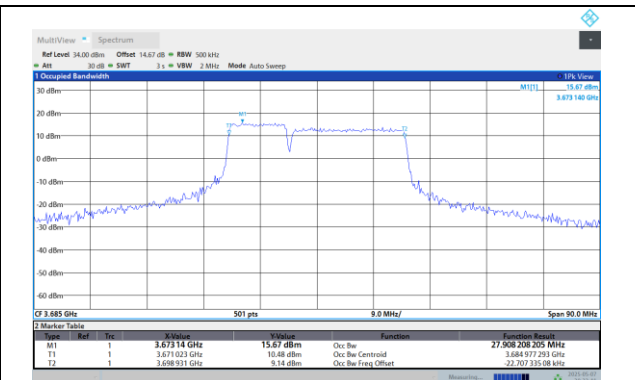


48-48-10MHz-20MHz-16QAM-16QAM-55896-56040-50RB#0-100RB#0-PASS

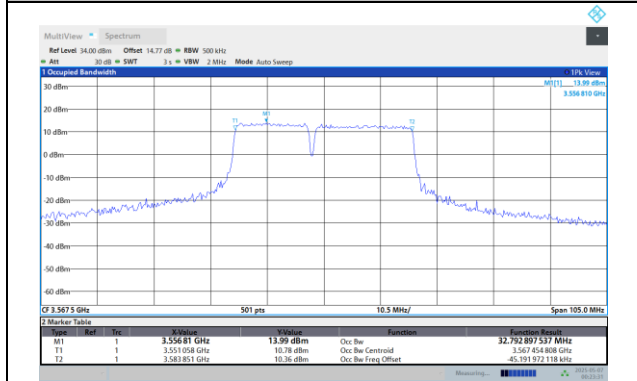
48-48-10MHz-20MHz-16QAM-16QAM-56496-56640-50RB#0-100RB#0-PASS



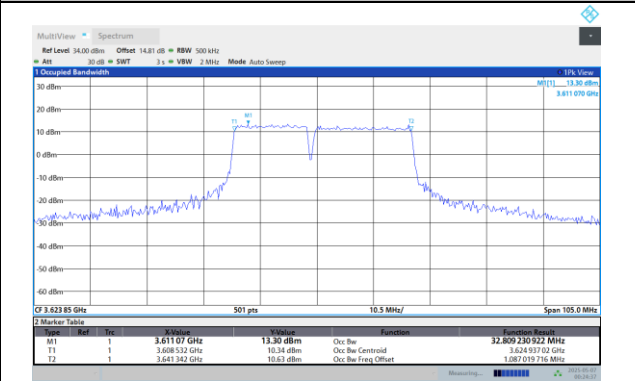
48-48-15MHz-20MHz-QPSK-QPSK-55318-55489-75RB#0-100RB#0-PASS



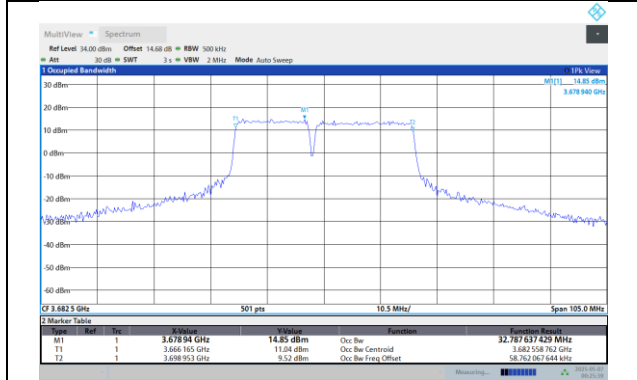
48-48-15MHz-20MHz-QPSK-QPSK-55893-56064-75RB#0-100RB#0-PASS



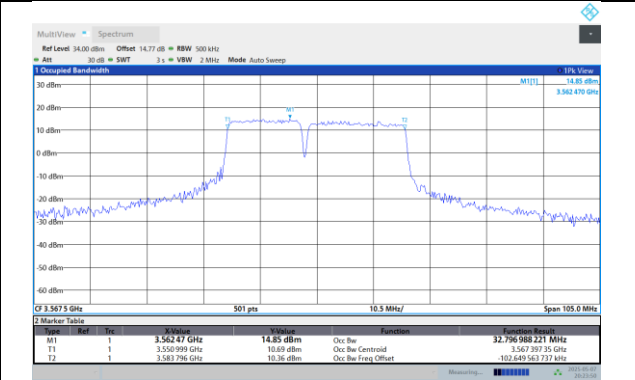
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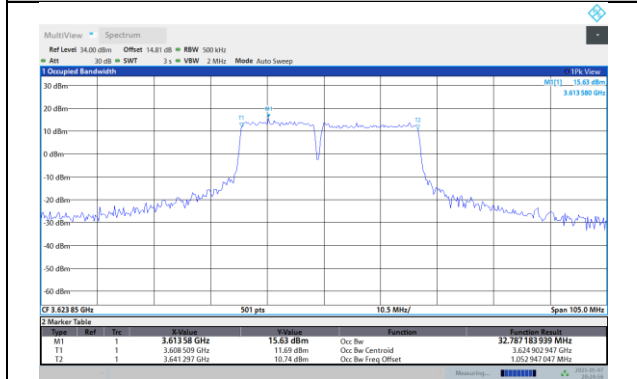
48-48-15MHz-20MHz-16QAM-16QAM-55318-55489-75RB#0-100RB#0-PASS



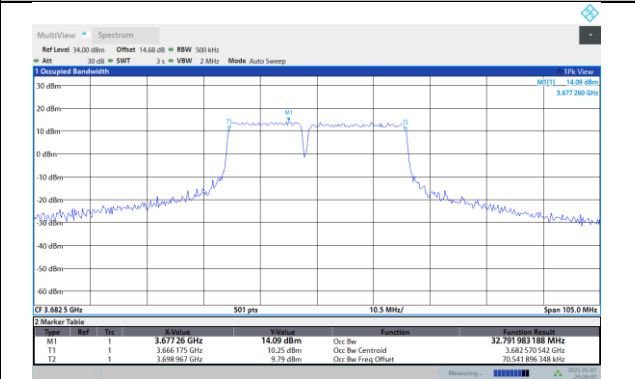
48-48-15MHz-20MHz-16QAM-16QAM-55893-56064-75RB#0-100RB#0-PASS



48-48-15MHz-20MHz-16QAM-16QAM-56469-56640-75RB#0-100RB#0-PASS

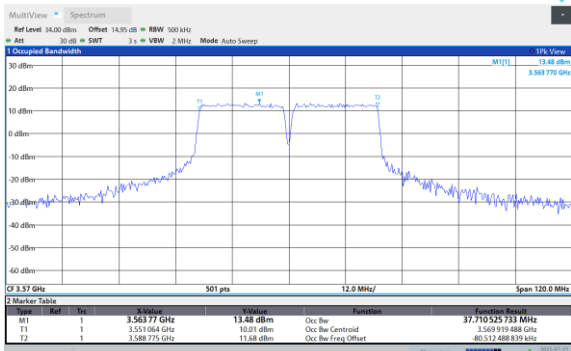


48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-75RB#0-100RB#0-PASS

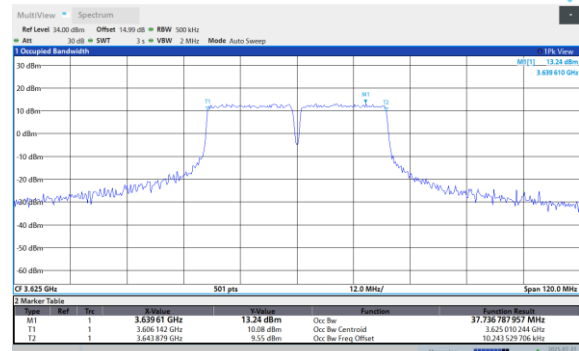
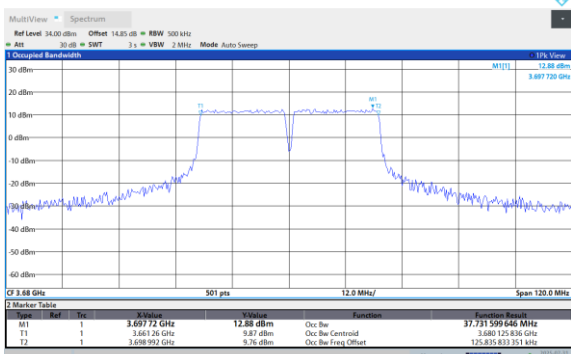
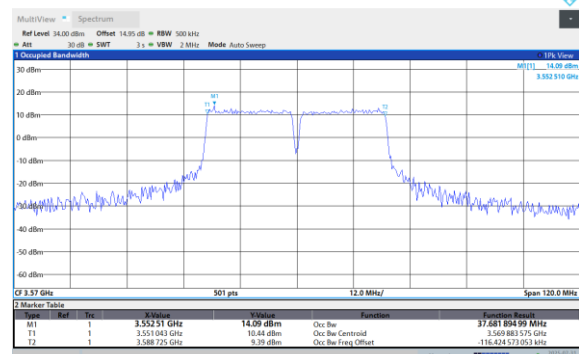
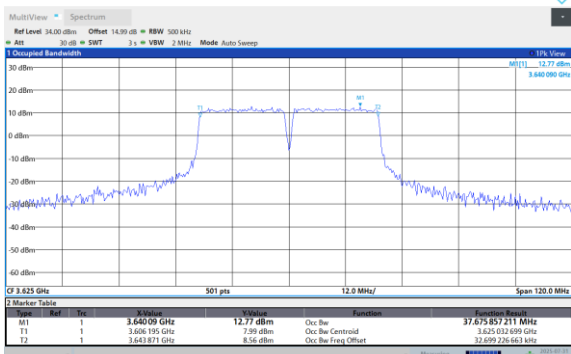
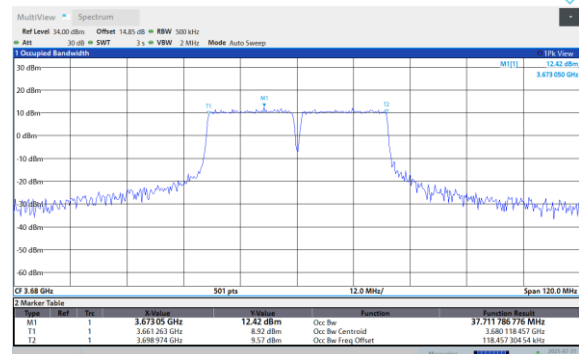


48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-75RB#0-100RB#0-PASS

100RB#0-100RB#0-PASS



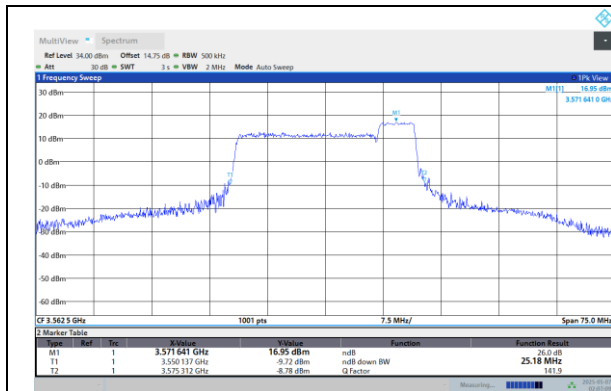
100RB#0-100RB#0-PASS


48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-
100RB#0-100RB#0-PASS

48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-
100RB#0-100RB#0-PASS

48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-
100RB#0-100RB#0-PASS

48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-
100RB#0-100RB#0-PASS


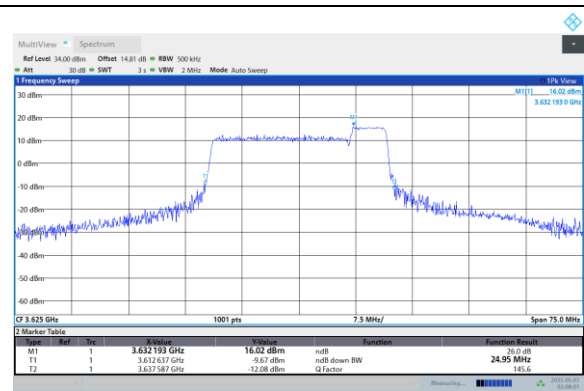
26dB Bandwidth

48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-
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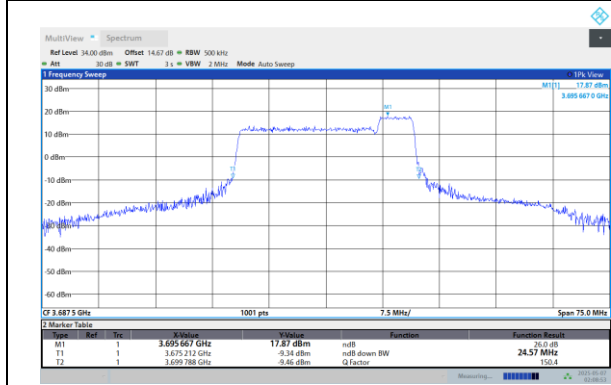
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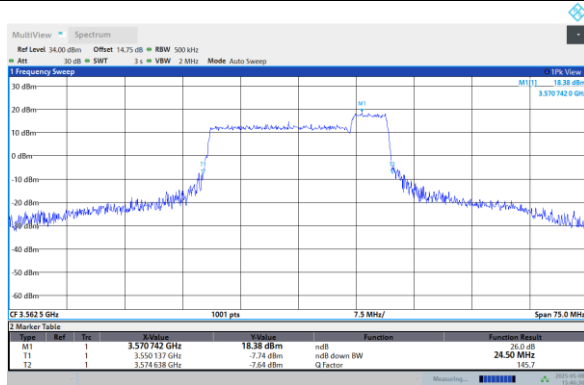
48-48-20MHz-5MHz-QPSK-QPSK-56590-56707-100RB#0-25RB#0-PASS



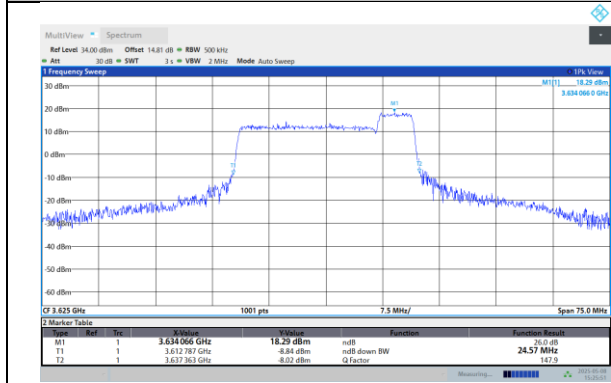
48-48-20MHz-5MHz-16QAM-16QAM-55340-55457-100RB#0-25RB#0-PASS



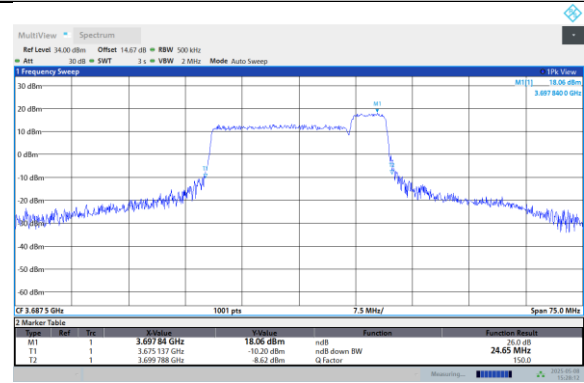
48-48-20MHz-5MHz-16QAM-16QAM-55965-56082-100RB#0-25RB#0-PASS



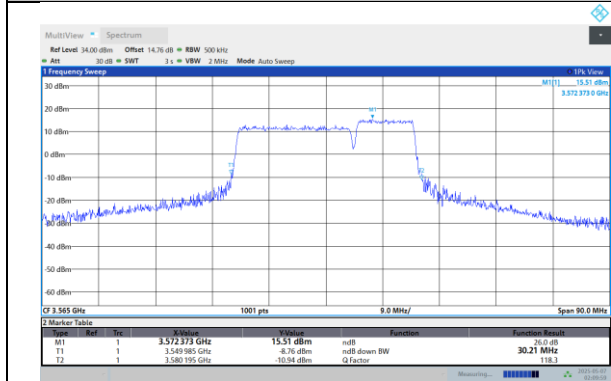
48-48-20MHz-5MHz-16QAM-16QAM-56590-56707-100RB#0-25RB#0-PASS

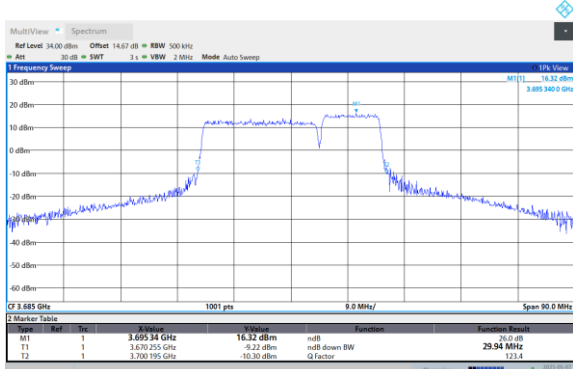
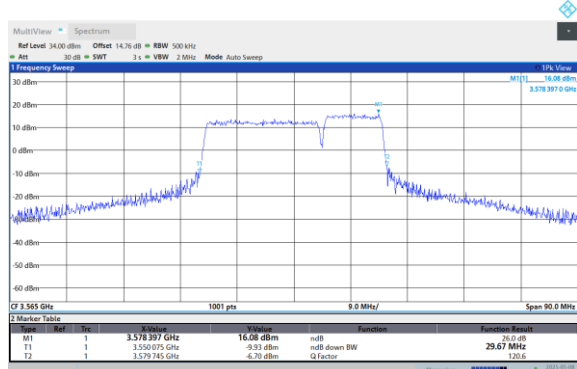
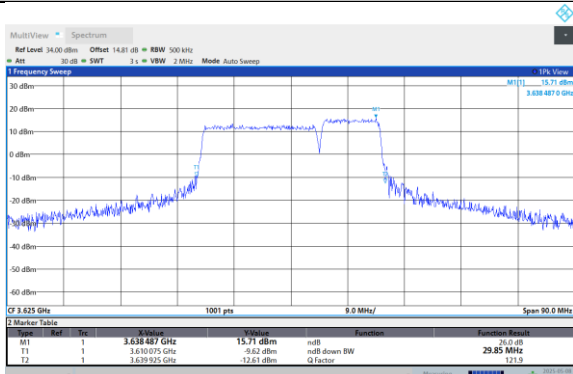
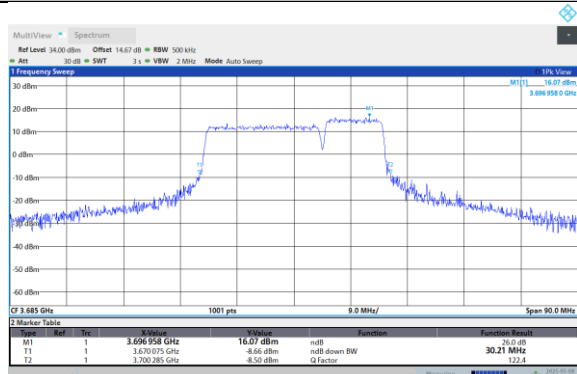
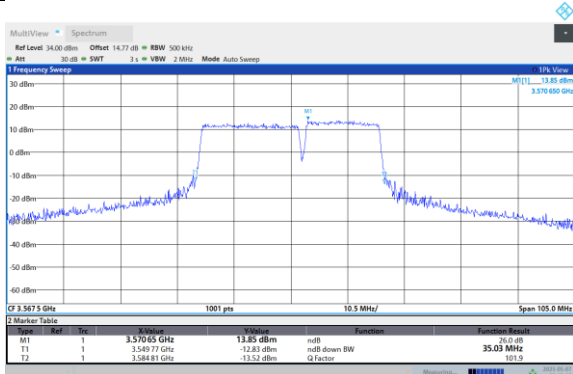
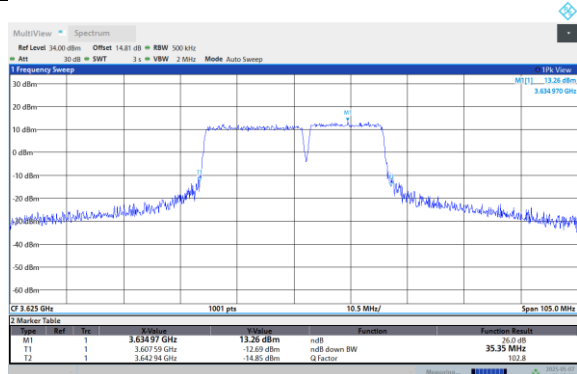


48-48-20MHz-10MHz-QPSK-QPSK-55340-55484-100RB#0-50RB#0-PASS

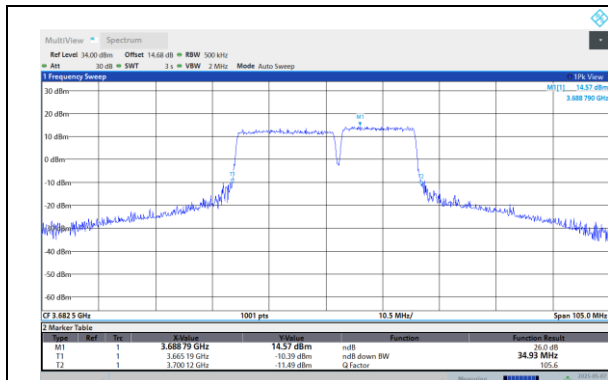


48-48-20MHz-10MHz-QPSK-QPSK-55941-56064-100RB#0-50RB#0-PASS

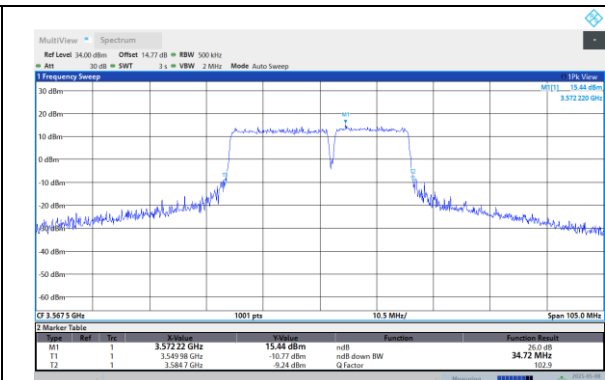


48-48-20MHz-10MHz-QPSK-QPSK-56541-56685-
100RB#0-50RB#0-PASS

48-48-20MHz-10MHz-16QAM-16QAM-55340-55484-
100RB#0-50RB#0-PASS

48-48-20MHz-10MHz-16QAM-16QAM-55941-56064-
100RB#0-50RB#0-PASS

48-48-20MHz-10MHz-16QAM-16QAM-56541-56685-
100RB#0-50RB#0-PASS

48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-
100RB#0-75RB#0-PASS

48-48-20MHz-15MHz-QPSK-QPSK-55916-56087-
100RB#0-75RB#0-PASS

48-48-20MHz-15MHz-QPSK-QPSK-56491-56662-
100RB#0-75RB#0-PASS

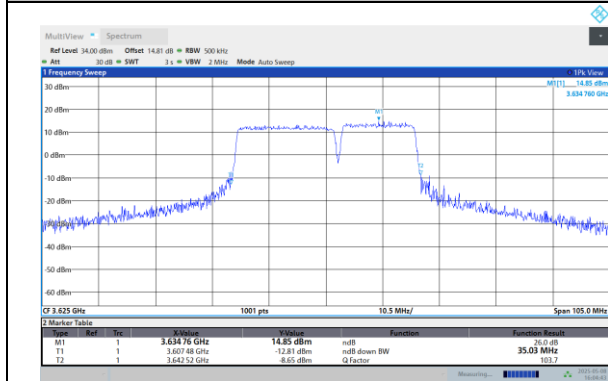
48-48-20MHz-15MHz-16QAM-16QAM-55340-55511-
100RB#0-75RB#0-PASS

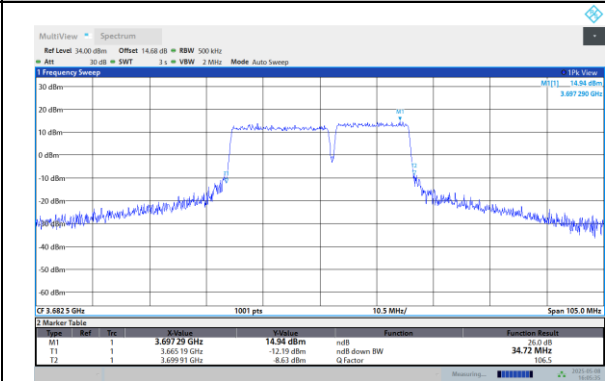
48-48-20MHz-15MHz-16QAM-16QAM-55916-56087-100RB#0-75RB#0-PASS



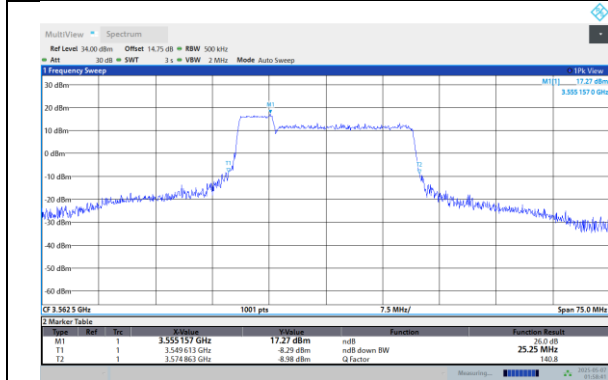
48-48-20MHz-15MHz-16QAM-16QAM-56491-56662-100RB#0-75RB#0-PASS



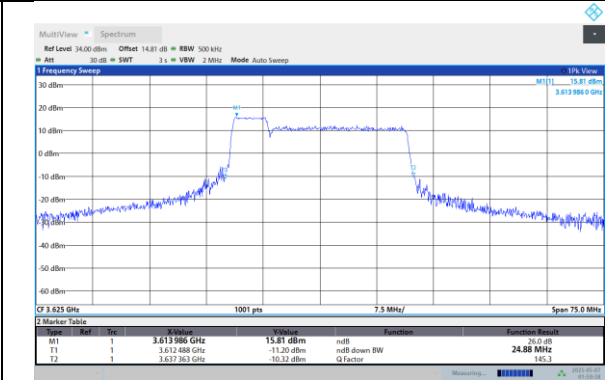
48-48-5MHz-20MHz-QPSK-QPSK-55273-55390-25RB#0-100RB#0-PASS



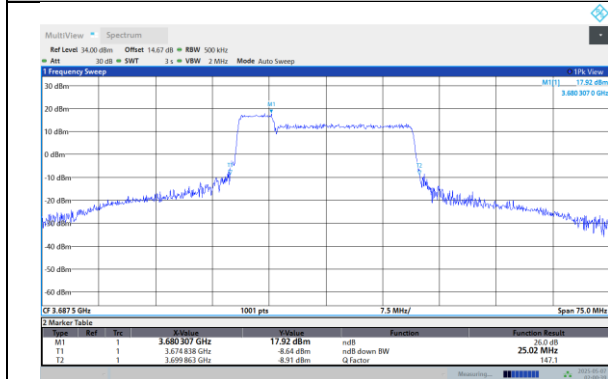
48-48-5MHz-20MHz-QPSK-QPSK-55898-56015-25RB#0-100RB#0-PASS



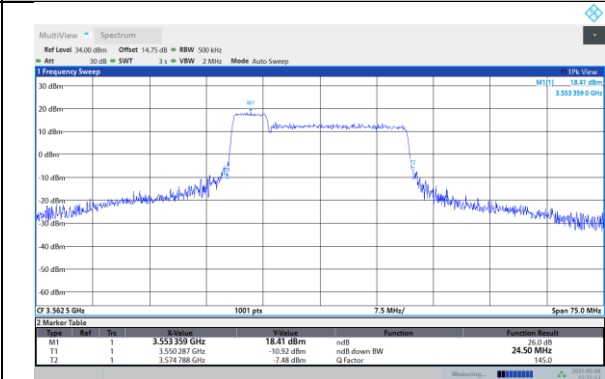
48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-25RB#0-100RB#0-PASS



48-48-5MHz-20MHz-16QAM-16QAM-55273-55390-25RB#0-100RB#0-PASS

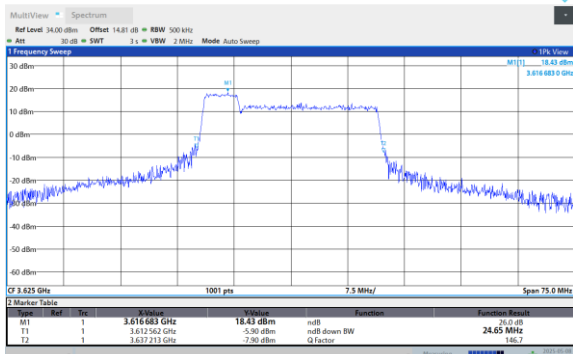


48-48-5MHz-20MHz-16QAM-16QAM-55898-56015-25RB#0-100RB#0-PASS

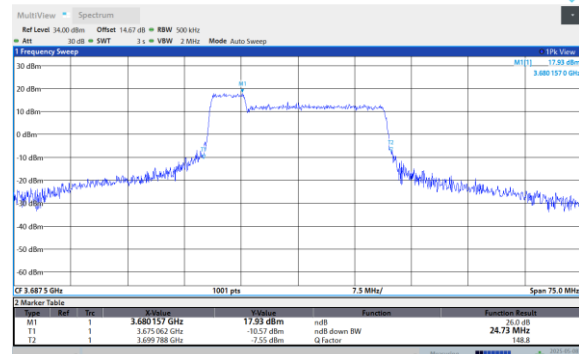


48-48-5MHz-20MHz-16QAM-16QAM-56523-56640-25RB#0-100RB#0-PASS

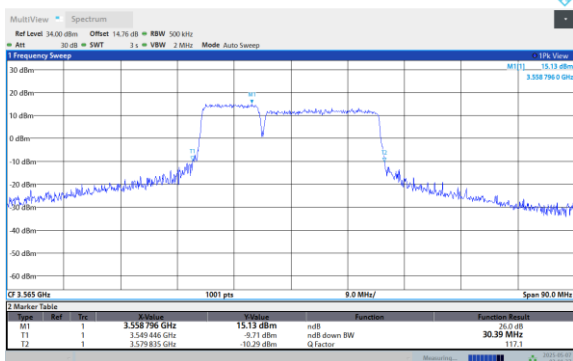
25RB#0-100RB#0-PASS



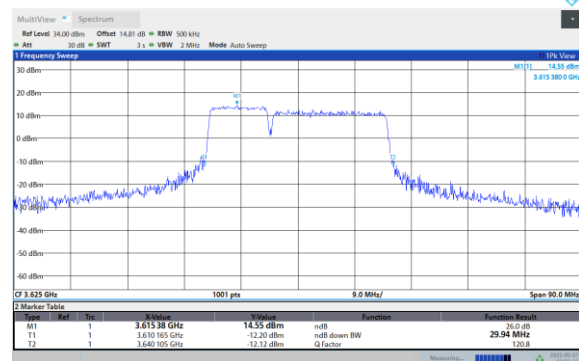
25RB#0-100RB#0-PASS



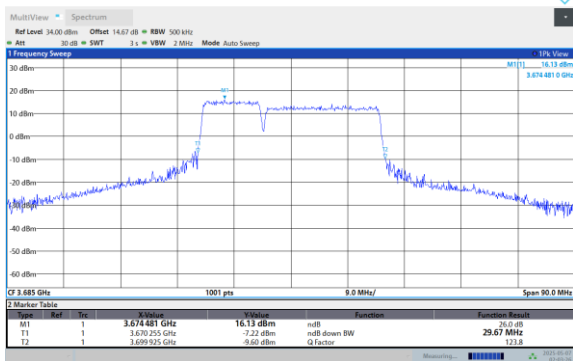
48-48-10MHz-20MHz-QPSK-QPSK-55295-55439-50RB#0-100RB#0-PASS



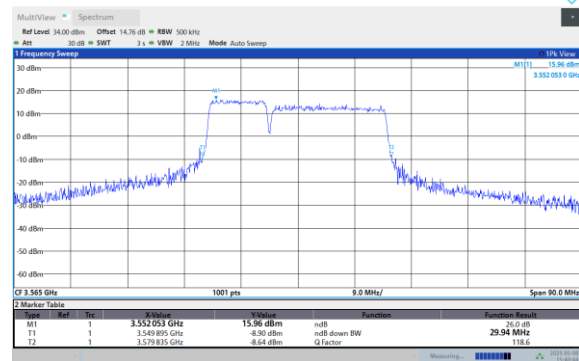
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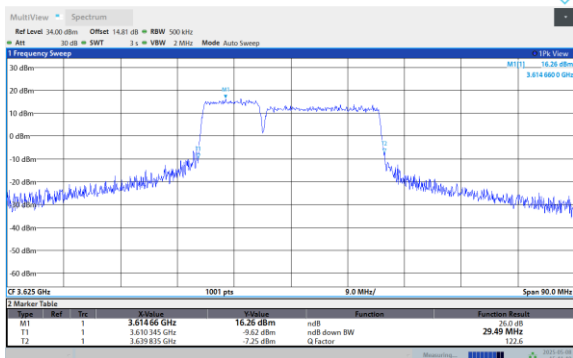
48-48-10MHz-20MHz-QPSK-QPSK-56496-56640-50RB#0-100RB#0-PASS



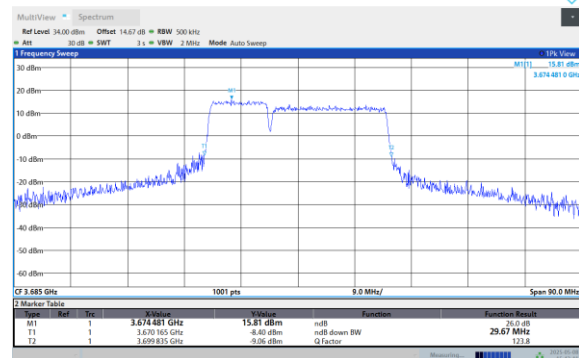
48-48-10MHz-20MHz-16QAM-16QAM-55295-55439-50RB#0-100RB#0-PASS



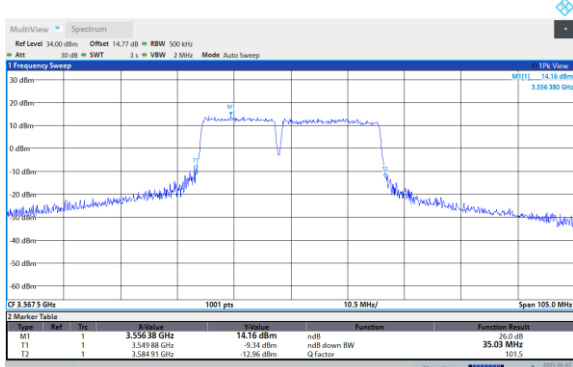
48-48-10MHz-20MHz-16QAM-16QAM-55896-56040-50RB#0-100RB#0-PASS



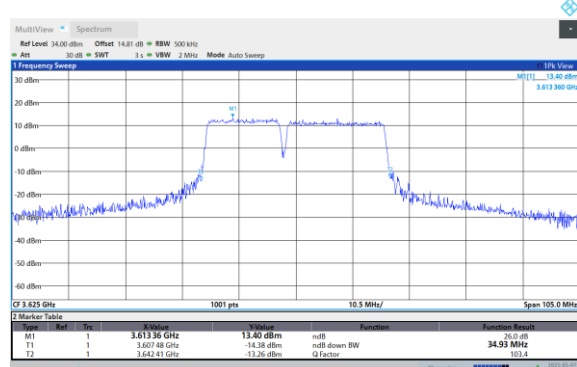
48-48-10MHz-20MHz-16QAM-16QAM-56496-56640-50RB#0-100RB#0-PASS



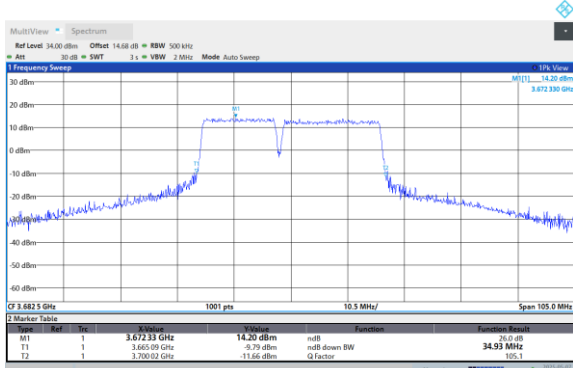
48-48-15MHz-20MHz-QPSK-QPSK-55318-55489-75RB#0-100RB#0-PASS



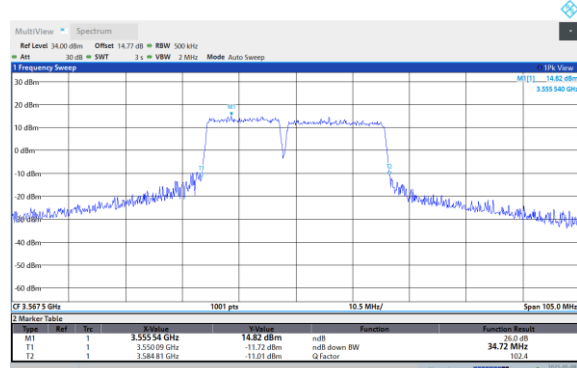
48-48-15MHz-20MHz-QPSK-QPSK-55893-56064-75RB#0-100RB#0-PASS



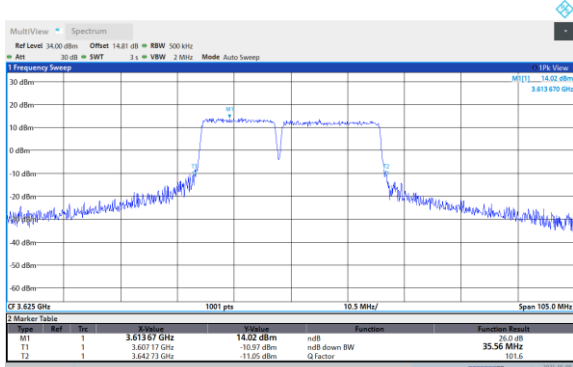
48-48-15MHz-20MHz-QPSK-QPSK-56469-56640-75RB#0-100RB#0-PASS



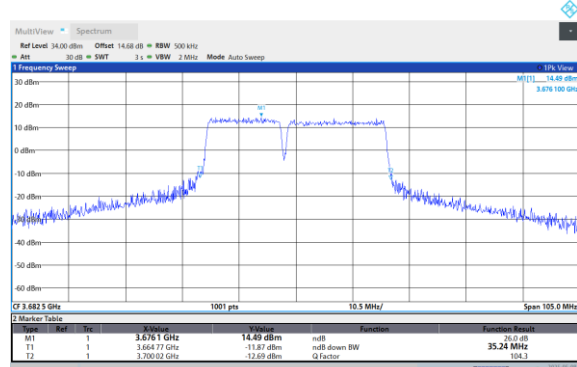
48-48-15MHz-20MHz-16QAM-16QAM-55318-55489-75RB#0-100RB#0-PASS



48-48-15MHz-20MHz-16QAM-16QAM-55893-56064-75RB#0-100RB#0-PASS



48-48-15MHz-20MHz-16QAM-16QAM-56469-56640-75RB#0-100RB#0-PASS

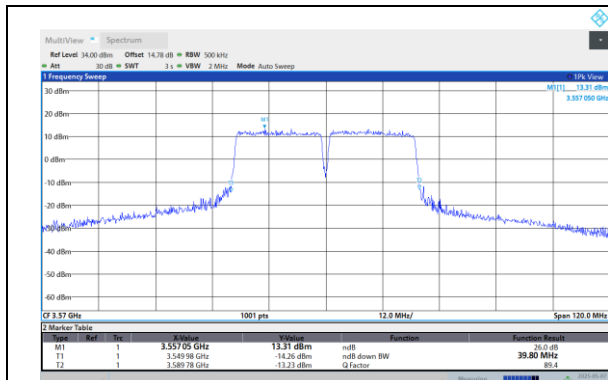


48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0-PASS

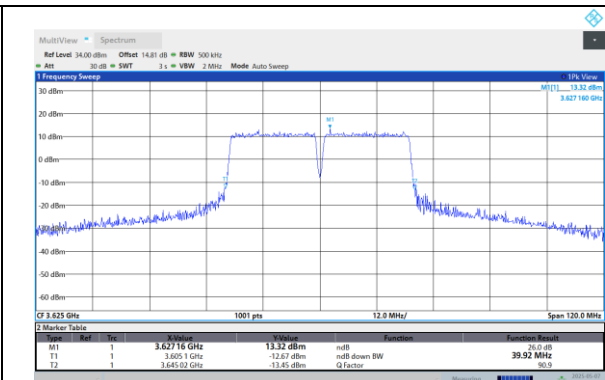


48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-100RB#0-100RB#0-PASS

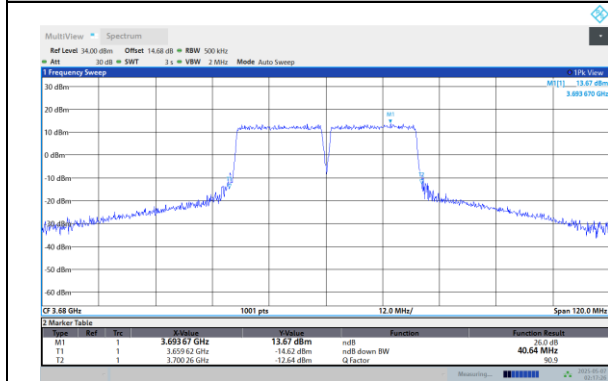




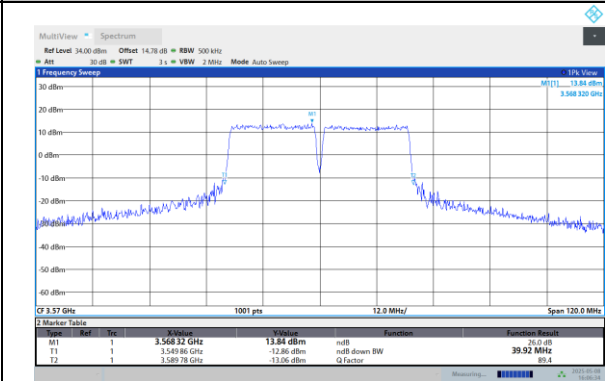
48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0-PASS



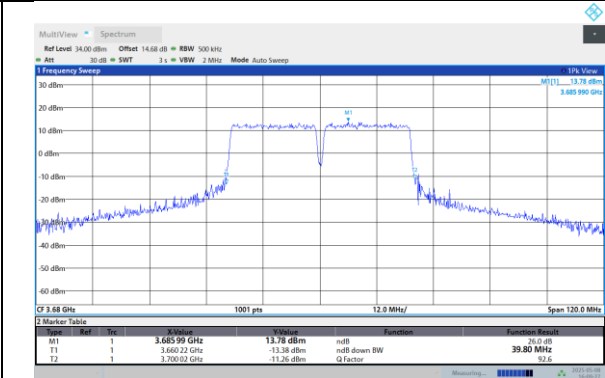
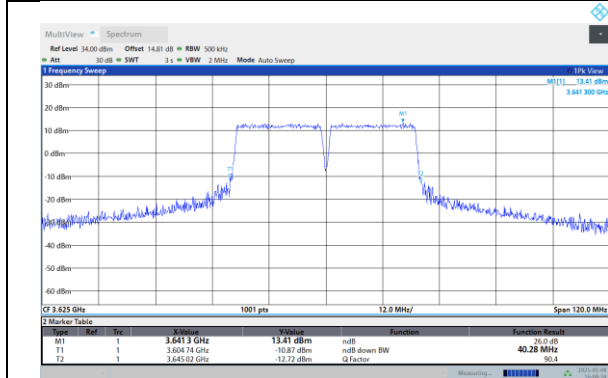
48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-100RB#0-100RB#0-PASS



48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-100RB#0-100RB#0-PASS



48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-100RB#0-100RB#0-PASS

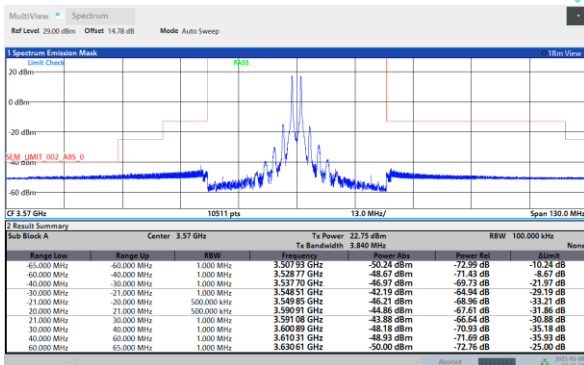


BAND EDGE TEST RESULT

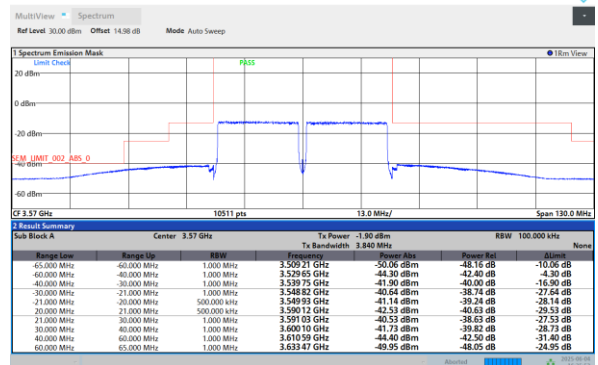
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	1RB#99-1RB#0	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	1RB#0-1RB#99	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	1RB#99-1RB#0	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	1RB#0-1RB#99	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	1RB#99-1RB#0	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	See Graph	Pass
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	1RB#0-1RB#99	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	1RB#99-1RB#0	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	1RB#0-1RB#99	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	1RB#99-1RB#0	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	1RB#0-1RB#99	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	1RB#99-1RB#0	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	See Graph	Pass
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	1RB#0-1RB#99	See Graph	Pass

TEST GRAPHS

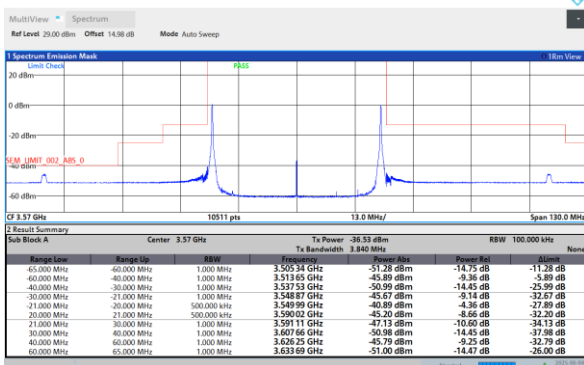
48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#99-1RB#0



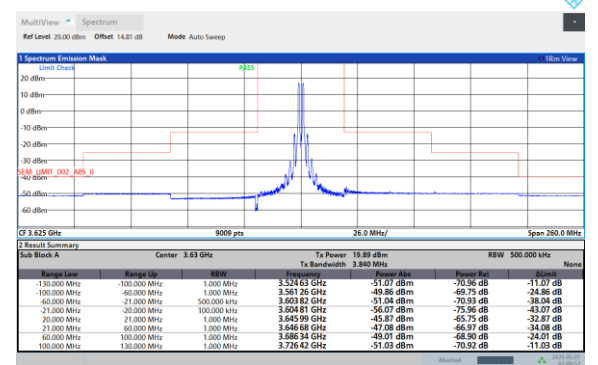
48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0



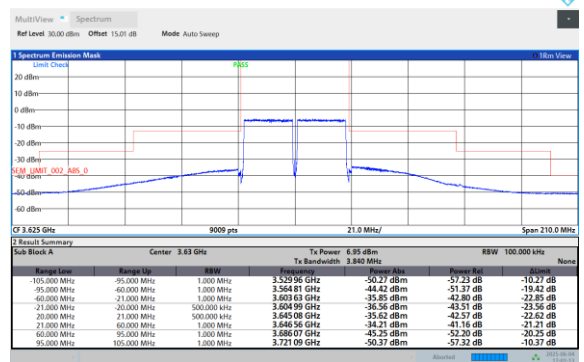
48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#99



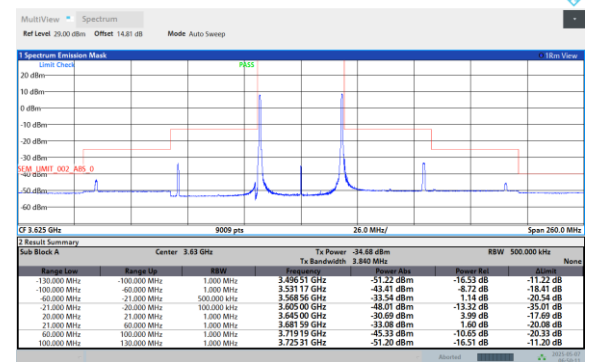
48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#99-1RB#0



48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-100RB#0-100RB#0



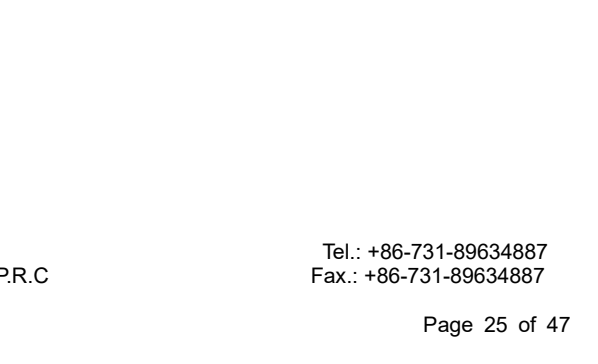
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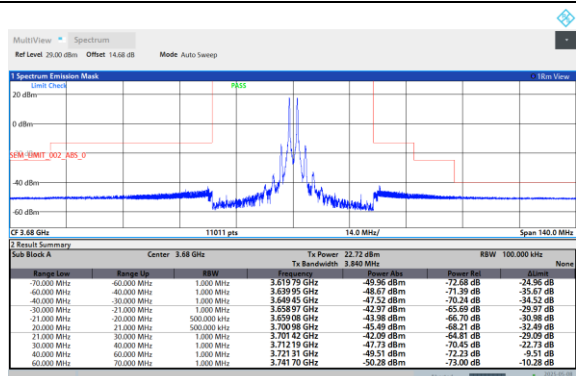


48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#99-1RB#0

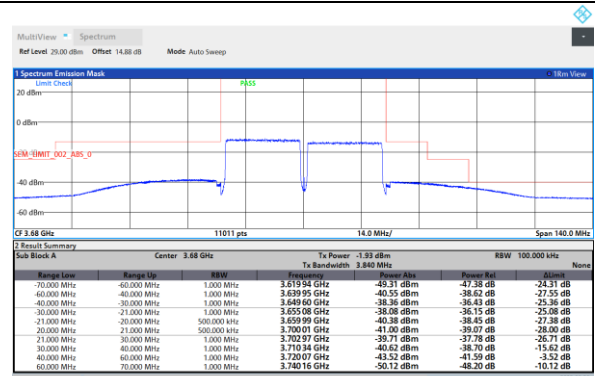


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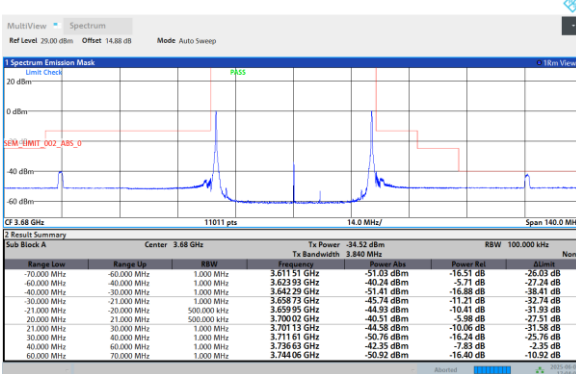




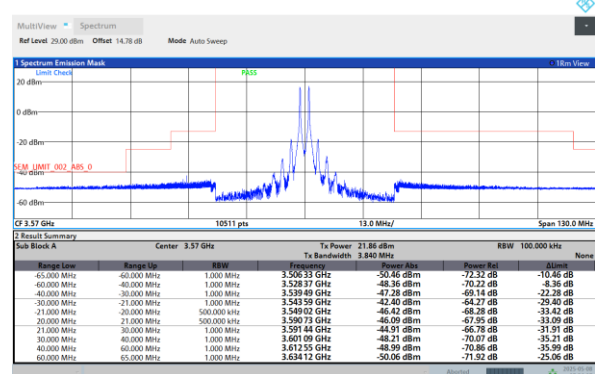
48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-1RB#99



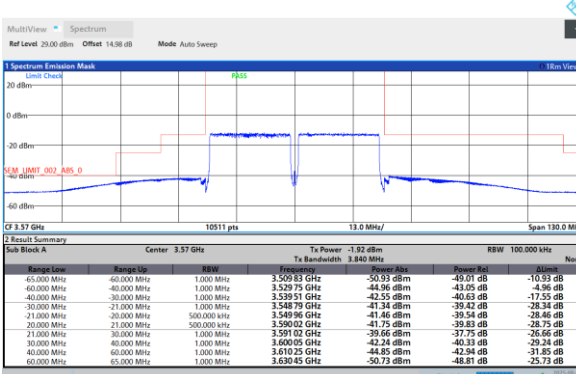
48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-1RB#99-1RB#0



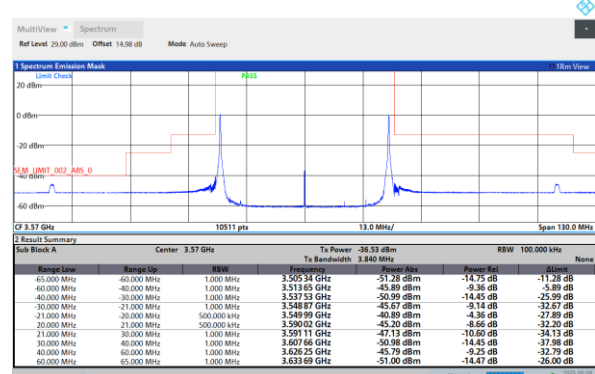
48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-100RB#0-100RB#0



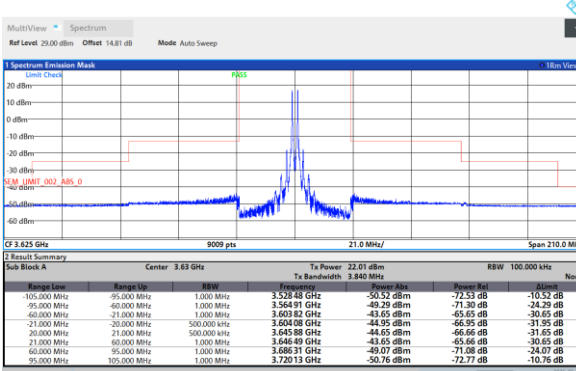
48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-1RB#0-1RB#99



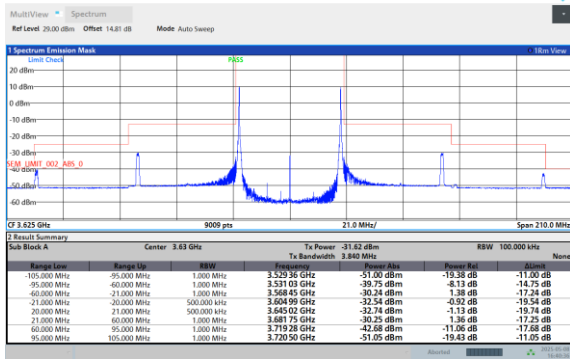
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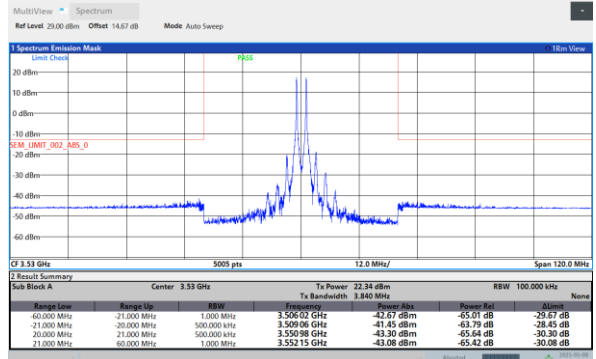
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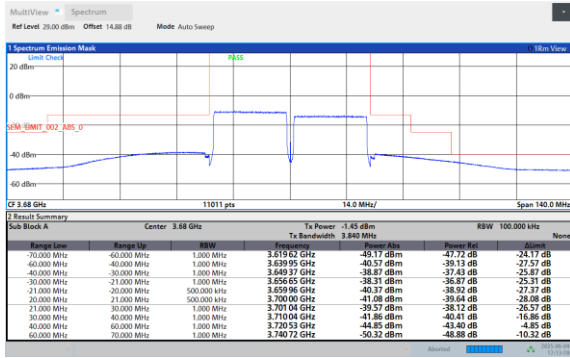
48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-1RB#0-1RB#99



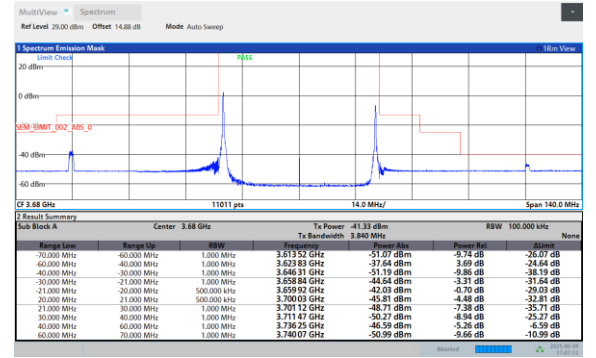
48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-1RB#99-1RB#0



48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-100RB#0-100RB#0



48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-1RB#0-1RB#99



ACLR TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Power (dBm)	Lower (dB)	Upper (dB)	Limit (dB)	Verdict
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	1RB#0-0RB#0	23.18	44.5	53.48	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	1RB#0-1RB#99	15.64	41.29	46.04	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	1RB#99-0RB#0	22.42	49.9	52.63	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	22.23	39.62	44.41	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	1RB#0-0RB#0	22.24	44.93	53.68	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	1RB#0-1RB#99	14.34	42.6	45.82	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	1RB#99-0RB#0	22.11	52.91	53.25	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	21.91	40.95	45.16	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	1RB#0-0RB#0	22.87	44.66	53.78	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	1RB#0-1RB#99	15.22	42.96	46.26	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	1RB#99-0RB#0	22.62	53.24	53.3	≥30	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	22.44	40.38	46.12	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	1RB#0-0RB#0	22.29	42.85	52.4	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	1RB#0-1RB#99	15.70	40.5	46.08	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	1RB#99-0RB#0	21.47	48.92	51.78	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	100RB#0-100RB#0	21.32	40.26	45.23	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	1RB#0-0RB#0	21.37	43.28	52.72	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	1RB#0-1RB#99	15.03	42.13	46.5	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	1RB#99-0RB#0	21.29	52.36	52.48	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	100RB#0-100RB#0	20.97	42.45	46.24	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	1RB#0-0RB#0	21.78	43.13	52.78	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	1RB#0-1RB#99	15.42	42.16	46.46	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	1RB#99-0RB#0	21.90	52.8	52.61	≥30	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	21.31	41.71	46.51	≥30	PASS

48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	1RB#0-0RB#0	19.52	38.91	47.35	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	1RB#0-1RB#99	15.71	40.52	46.09	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	1RB#99-0RB#0	19.47	45.89	48.02	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	100RB#0-100RB#0	19.62	40.38	45.38	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	1RB#0-0RB#0	18.70	40.45	47.33	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	1RB#0-1RB#99	15.11	42.02	46.58	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	1RB#99-0RB#0	19.30	49.38	48.99	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	100RB#0-100RB#0	19.31	42.81	45.92	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	1RB#0-0RB#0	19.17	42.06	49.16	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	1RB#0-1RB#99	15.46	42.01	46.38	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	1RB#99-0RB#0	19.70	50.33	49.74	≥30	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	19.67	45.61	47.83	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	1RB#0-0RB#0	23.32	43.04	53.47	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	1RB#0-1RB#99	16.00	41.04	46.52	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	1RB#99-0RB#0	22.59	49.95	52.92	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	21.30	39.97	44.71	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	1RB#0-0RB#0	22.40	44.01	53.73	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	1RB#0-1RB#99	15.05	42.36	46.58	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	1RB#99-0RB#0	22.16	52.8	53.28	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	21.07	41.77	45.46	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	1RB#0-0RB#0	22.79	43.11	53.67	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	1RB#0-1RB#99	15.41	42.61	46.34	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	1RB#99-0RB#0	22.86	53.61	53.46	≥30	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	21.26	41.57	46.44	≥30	PASS

TEST GRAPHS

