

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band CA_7C

1 RF Power Output

Bandwidth	Modulation	Channel	RB Configuration	Conducted power (dBm)
10MHz-20MHz	QPSK-QPSK	20805-20949	12RB#0-0RB#0	22.86
			1RB#0-0RB#0	22.90
		21006-21150	12RB#0-0RB#0	22.83
			1RB#0-0RB#0	22.87
		21206-21350	12RB#0-0RB#0	22.82
			1RB#0-0RB#0	22.85
	16QAM-16QAM	20805-20949	12RB#0-0RB#0	21.94
			1RB#0-0RB#0	22.39
		21006-21150	12RB#0-0RB#0	21.94
			1RB#0-0RB#0	22.62
		21206-21350	12RB#0-0RB#0	21.94
			1RB#0-0RB#0	22.33
	64QAM-64QAM	20805-20949	12RB#0-0RB#0	20.97
			1RB#0-0RB#0	21.07
		21006-21150	12RB#0-0RB#0	20.92
			1RB#0-0RB#0	21.09
		21206-21350	12RB#0-0RB#0	20.87
			1RB#0-0RB#0	21.03
	256QAM-256QAM	20805-20949	12RB#0-0RB#0	18.04
			1RB#0-0RB#0	18.34
		21006-21150	12RB#0-0RB#0	17.96
			1RB#0-0RB#0	18.25
		21206-21350	12RB#0-0RB#0	17.97
			1RB#0-0RB#0	18.22
15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	22.85
		21051-21171	1RB#0-0RB#0	22.76
		21277-21397	1RB#0-0RB#0	22.78
	16QAM-16QAM	20825-20945	1RB#0-0RB#0	22.30
		21051-21171	1RB#0-0RB#0	22.31
		21277-21397	1RB#0-0RB#0	22.48
	64QAM-64QAM	20825-20945	1RB#0-0RB#0	22.12
		21051-21171	1RB#0-0RB#0	22.07
		21277-21397	1RB#0-0RB#0	21.95

	256QAM-256QAM	20825-20945	1RB#0-0RB#0	18.37
		21051-21171	1RB#0-0RB#0	18.39
		21277-21397	1RB#0-0RB#0	18.25
15MHz-15MHz	QPSK-QPSK	20825-20975	16RB#0-0RB#0	22.83
			1RB#0-0RB#0	22.77
		21025-21175	16RB#0-0RB#0	22.86
			1RB#0-0RB#0	22.78
		21225-21375	16RB#0-0RB#0	22.77
			1RB#0-0RB#0	22.79
	16QAM-16QAM	20825-20975	16RB#0-0RB#0	21.97
			1RB#0-0RB#0	22.26
		21025-21175	16RB#0-0RB#0	21.94
			1RB#0-0RB#0	22.31
		21225-21375	16RB#0-0RB#0	21.96
			1RB#0-0RB#0	22.39
	64QAM-64QAM	20825-20975	16RB#0-0RB#0	20.96
			1RB#0-0RB#0	21.10
		21025-21175	16RB#0-0RB#0	20.98
			1RB#0-0RB#0	21.14
		21225-21375	16RB#0-0RB#0	20.98
			1RB#0-0RB#0	21.09
	256QAM-256QAM	20825-20975	16RB#0-0RB#0	18.02
			1RB#0-0RB#0	18.21
		21025-21175	16RB#0-0RB#0	18.02
			1RB#0-0RB#0	18.39
		21225-21375	16RB#0-0RB#0	18.07
			1RB#0-0RB#0	18.19
15MHz-20MHz	QPSK-QPSK	20828-20999	16RB#0-0RB#0	22.81
			1RB#0-0RB#0	20.22
		21003-21174	16RB#0-0RB#0	22.85
			1RB#0-0RB#0	22.87
		21179-21350	16RB#0-0RB#0	22.81
			1RB#0-0RB#0	22.82
	16QAM-16QAM	20828-20999	16RB#0-0RB#0	22.00
			1RB#0-0RB#0	22.36
		21003-21174	16RB#0-0RB#0	22.04

	64QAM-64QAM	21179-21350	1RB#0-0RB#0	22.35	
			16RB#0-0RB#0	21.95	
			1RB#0-0RB#0	22.25	
		21003-21174	16RB#0-0RB#0	20.93	
			1RB#0-0RB#0	21.08	
			16RB#0-0RB#0	20.99	
	256QAM-256QAM	21179-21350	16RB#0-0RB#0	20.93	
			1RB#0-0RB#0	21.19	
			16RB#0-0RB#0	17.94	
		21003-21174	1RB#0-0RB#0	18.30	
			16RB#0-0RB#0	18.04	
			1RB#0-0RB#0	18.23	
	20MHz-10MHz	QPSK-QPSK	20850-20994	16RB#0-0RB#0	17.97
				1RB#0-0RB#0	18.13
				16RB#0-0RB#0	17.94
			21051-21195	1RB#0-0RB#0	18.30
				16RB#0-0RB#0	18.04
				1RB#0-0RB#0	18.23
16QAM-16QAM		21251-21395	16RB#0-0RB#0	17.97	
			1RB#0-0RB#0	18.13	
			16RB#0-0RB#0	22.87	
		20850-20994	1RB#0-0RB#0	22.85	
			12RB#0-0RB#0	22.83	
			1RB#0-0RB#0	22.87	
64QAM-64QAM		21051-21195	12RB#0-0RB#0	22.82	
			1RB#0-0RB#0	22.79	
			12RB#0-0RB#0	22.06	
		21251-21395	1RB#0-0RB#0	22.31	
			12RB#0-0RB#0	22.02	
			1RB#0-0RB#0	22.48	
256QAM-256QAM	20850-20994	12RB#0-0RB#0	22.01		
		1RB#0-0RB#0	22.31		
		12RB#0-0RB#0	20.90		
	21051-21195	1RB#0-0RB#0	20.94		
		12RB#0-0RB#0	20.90		
		1RB#0-0RB#0	21.14		
21251-21395	12RB#0-0RB#0	20.89			
	1RB#0-0RB#0	21.17			
	12RB#0-0RB#0	18.13			
21051-21195	1RB#0-0RB#0	18.32			
	12RB#0-0RB#0	18.10			
	1RB#0-0RB#0	18.10			

		21251-21395	1RB#0-0RB#0	18.36
			12RB#0-0RB#0	18.06
			1RB#0-0RB#0	18.23
20MHz-20MHz	QPSK-QPSK	20850-21048	18RB#0-0RB#0	22.86
			1RB#0-0RB#0	22.85
		21001-21199	18RB#0-0RB#0	22.83
			1RB#0-0RB#0	22.81
		21152-21350	18RB#0-0RB#0	22.86
			1RB#0-0RB#0	22.83
	16QAM-16QAM	20850-21048	18RB#0-0RB#0	21.95
			1RB#0-0RB#0	21.91
		21001-21199	18RB#0-0RB#0	21.93
			1RB#0-0RB#0	21.89
		21152-21350	18RB#0-0RB#0	21.91
			1RB#0-0RB#0	22.20
	64QAM-64QAM	20850-21048	18RB#0-0RB#0	20.94
			1RB#0-0RB#0	20.96
		21001-21199	18RB#0-0RB#0	20.93
			1RB#0-0RB#0	21.03
		21152-21350	18RB#0-0RB#0	20.97
			1RB#0-0RB#0	21.08
	256QAM-256QAM	20850-21048	18RB#0-0RB#0	17.94
			1RB#0-0RB#0	17.95
		21001-21199	18RB#0-0RB#0	17.95
			1RB#0-0RB#0	18.29
		21152-21350	18RB#0-0RB#0	17.90
			1RB#0-0RB#0	18.23

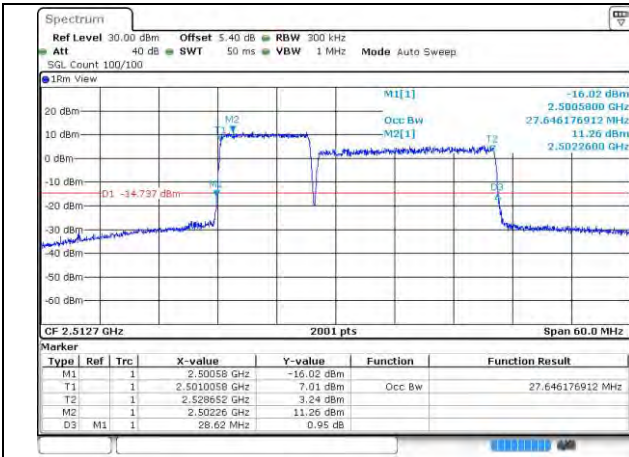
Test on the worst case:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	22.69
			21006-21150	1RB#0-0RB#0	22.66
			21206-21350	1RB#0-0RB#0	22.74

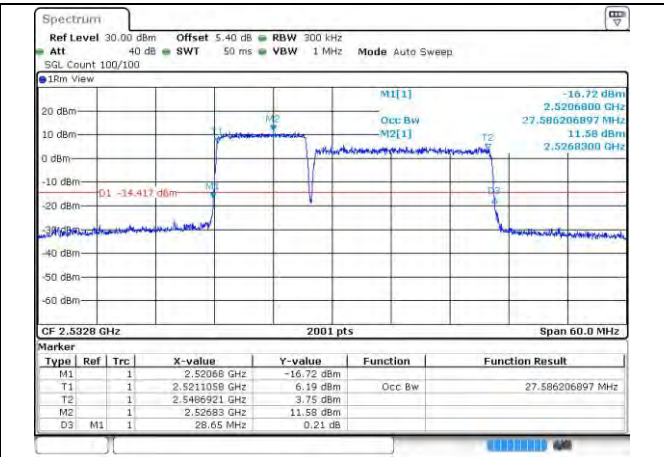
2 Occupied Bandwidth& Emission Bandwidth

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
CA-7C	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	27.646	28.620
			21006-21150	50RB#0-100RB#0	27.586	28.650
			21206-21350	50RB#0-100RB#0	27.646	28.650
		16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.706	28.680
			21006-21150	50RB#0-100RB#0	27.646	28.560
			21206-21350	50RB#0-100RB#0	27.676	28.650
		64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.646	28.680
			21006-21150	50RB#0-100RB#0	27.646	28.680
			21206-21350	50RB#0-100RB#0	27.616	28.680
		256QAM-256QAM	20805-20949	50RB#0-100RB#0	27.706	28.680
			21006-21150	50RB#0-100RB#0	27.616	28.620
			21206-21350	50RB#0-100RB#0	27.646	28.650
	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.088	24.050
			21051-21171	75RB#0-50RB#0	23.088	24.100
			21277-21397	75RB#0-50RB#0	23.088	24.050
		16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.088	24.100
			21051-21171	75RB#0-50RB#0	23.063	24.075
			21277-21397	75RB#0-50RB#0	23.088	24.075
		64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.113	24.100
			21051-21171	75RB#0-50RB#0	23.088	24.125
			21277-21397	75RB#0-50RB#0	23.113	24.125
		256QAM-256QAM	20825-20945	75RB#0-50RB#0	23.088	24.100
			21051-21171	75RB#0-50RB#0	23.063	24.075
			21277-21397	75RB#0-50RB#0	23.088	24.125
	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.276	29.310
			21025-21175	75RB#0-75RB#0	28.216	29.310
			21225-21375	75RB#0-75RB#0	28.276	29.280
		16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.306	29.340
			21025-21175	75RB#0-75RB#0	28.246	29.280
			21225-21375	75RB#0-75RB#0	28.276	29.370
		64QAM-64QAM	20825-20975	75RB#0-75RB#0	28.306	29.280
			21025-21175	75RB#0-75RB#0	28.246	29.310
			21225-21375	75RB#0-75RB#0	28.276	29.370
		256QAM-256QAM	20825-20975	75RB#0-75RB#0	28.246	29.310
			21025-21175	75RB#0-75RB#0	28.186	29.370
			21225-21375	75RB#0-75RB#0	28.246	29.370
	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.604	34.020
			21003-21174	75RB#0-100RB#0	32.569	34.055
			21179-21350	75RB#0-100RB#0	32.639	34.055
		16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.674	34.020
			21003-21174	75RB#0-100RB#0	32.604	34.020
			21179-21350	75RB#0-100RB#0	32.709	34.090
		64QAM-64QAM	20828-20999	75RB#0-100RB#0	32.604	34.020
			21003-21174	75RB#0-100RB#0	32.569	34.020
			21179-21350	75RB#0-100RB#0	32.604	34.055
		256QAM-256QAM	20828-20999	75RB#0-100RB#0	32.674	34.055
			21003-21174	75RB#0-100RB#0	32.569	34.055

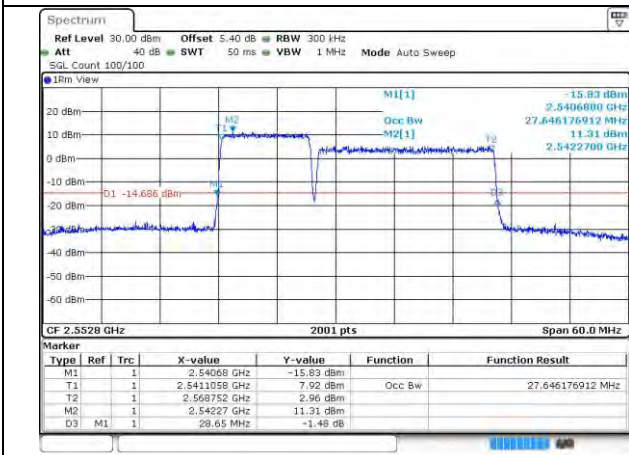
	20MHz-10MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.674	34.055	
			20850-20994	100RB#0-50RB#0	27.736	28.830	
			21051-21195	100RB#0-50RB#0	27.736	28.920	
		16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.736	28.890	
			20850-20994	100RB#0-50RB#0	27.676	28.770	
			21051-21195	100RB#0-50RB#0	27.676	28.800	
			21251-21395	100RB#0-50RB#0	27.736	28.800	
			64QAM-64QAM	20850-20994	100RB#0-50RB#0	27.676	28.740
				21051-21195	100RB#0-50RB#0	27.706	28.800
	21251-21395	100RB#0-50RB#0		27.706	28.800		
	256QAM-256QAM	20850-20994	100RB#0-50RB#0	27.706	28.740		
		21051-21195	100RB#0-50RB#0	27.676	28.740		
		21251-21395	100RB#0-50RB#0	27.706	28.830		
	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.639	34.090	
			21026-21197	100RB#0-75RB#0	32.639	34.195	
			21201-21372	100RB#0-75RB#0	32.709	34.125	
		16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.639	34.160	
			21026-21197	100RB#0-75RB#0	32.639	34.090	
			21201-21372	100RB#0-75RB#0	32.709	34.125	
		64QAM-64QAM	20850-21021	100RB#0-75RB#0	32.569	34.090	
			21026-21197	100RB#0-75RB#0	32.639	34.090	
			21201-21372	100RB#0-75RB#0	32.639	34.125	
		256QAM-256QAM	20850-21021	100RB#0-75RB#0	32.639	34.125	
			21026-21197	100RB#0-75RB#0	32.604	34.090	
			21201-21372	100RB#0-75RB#0	32.674	34.125	
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.501	39.080	
			21001-21199	100RB#0-100RB#0	37.501	39.040	
21152-21350			100RB#0-100RB#0	37.581	39.080		
16QAM-16QAM		20850-21048	100RB#0-100RB#0	37.541	39.040		
		21001-21199	100RB#0-100RB#0	37.501	39.040		
		21152-21350	100RB#0-100RB#0	37.581	39.120		
64QAM-64QAM		20850-21048	100RB#0-100RB#0	37.421	39.040		
		21001-21199	100RB#0-100RB#0	37.461	39.000		
		21152-21350	100RB#0-100RB#0	37.541	39.040		
256QAM-256QAM		20850-21048	100RB#0-100RB#0	37.541	39.080		
		21001-21199	100RB#0-100RB#0	37.461	39.000		
		21152-21350	100RB#0-100RB#0	37.501	39.080		



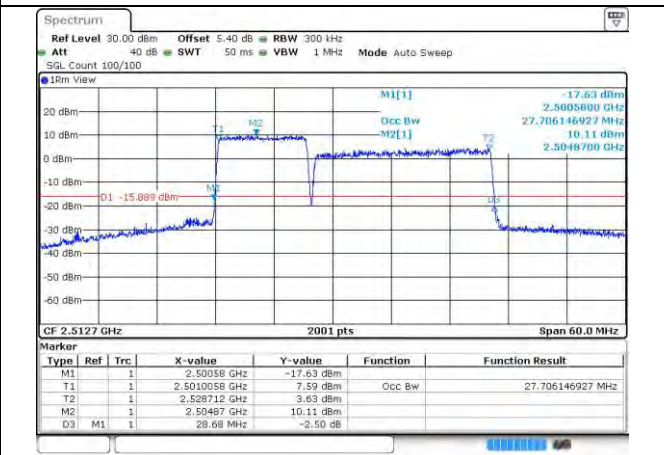
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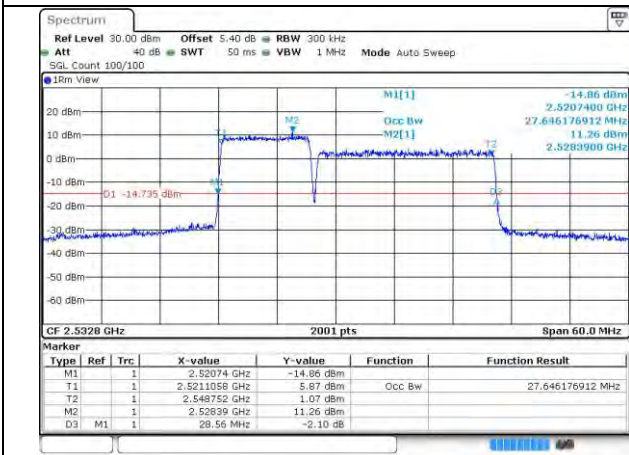
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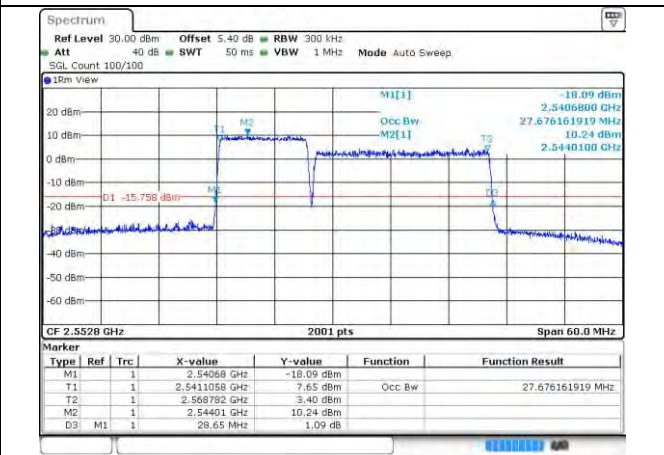
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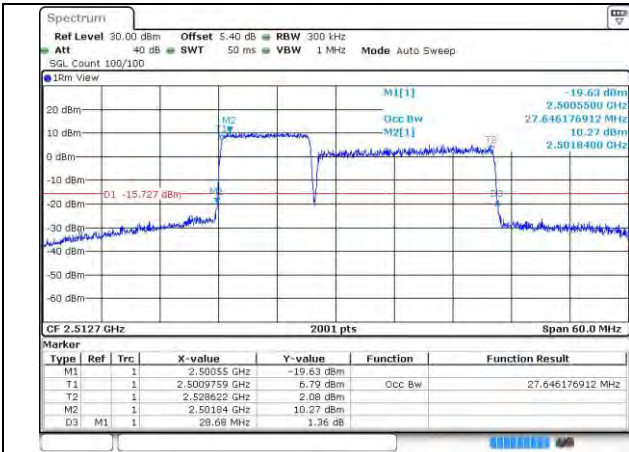
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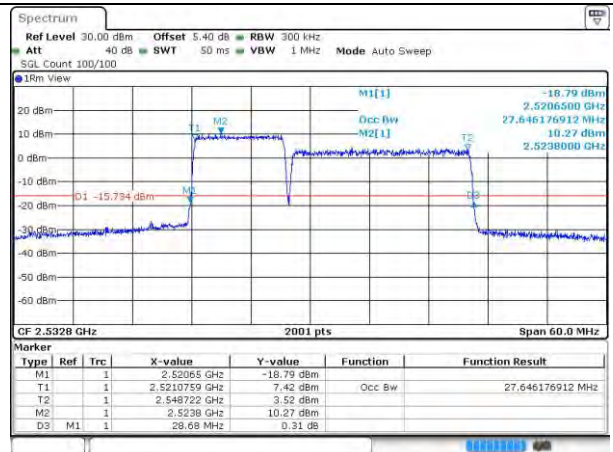
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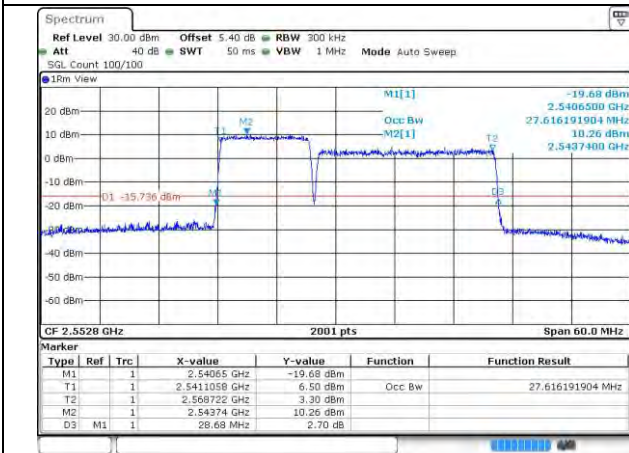
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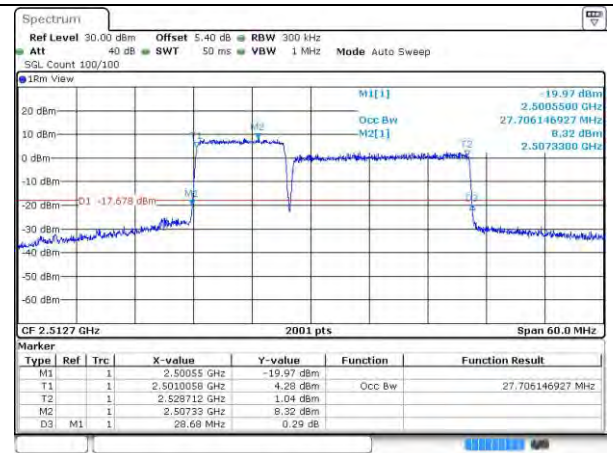
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RB#0-100RB#0



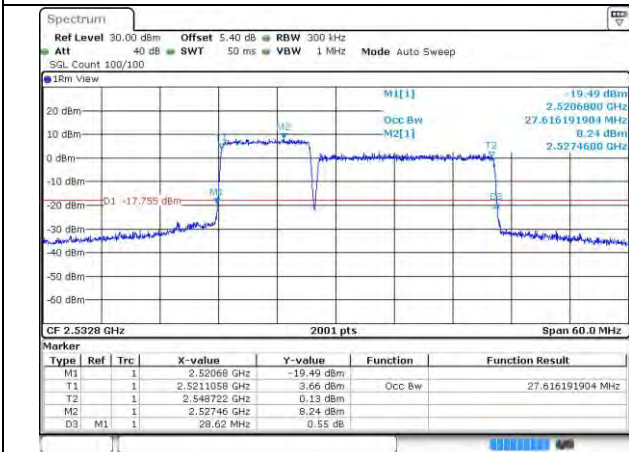
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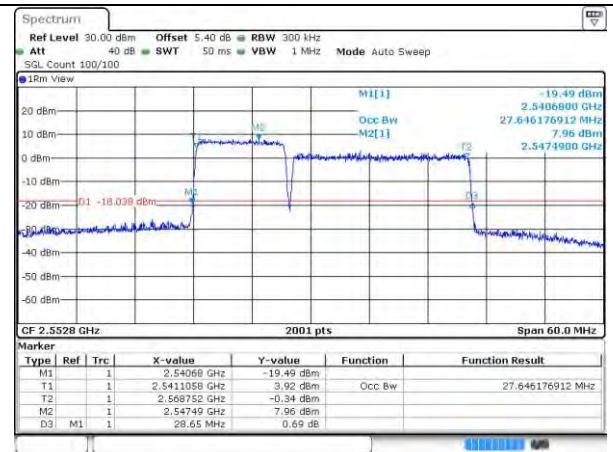
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RB#0-100RB#0



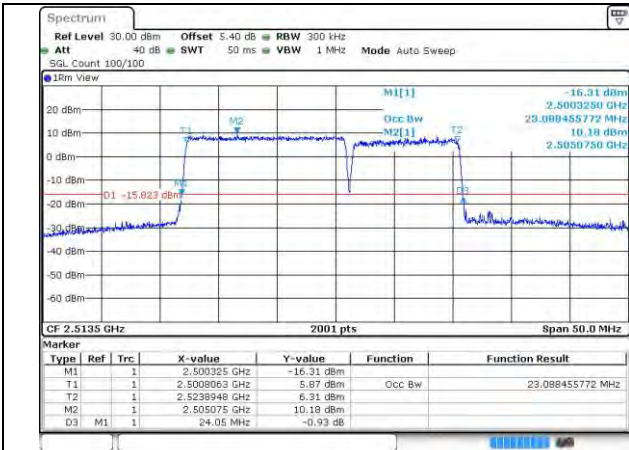
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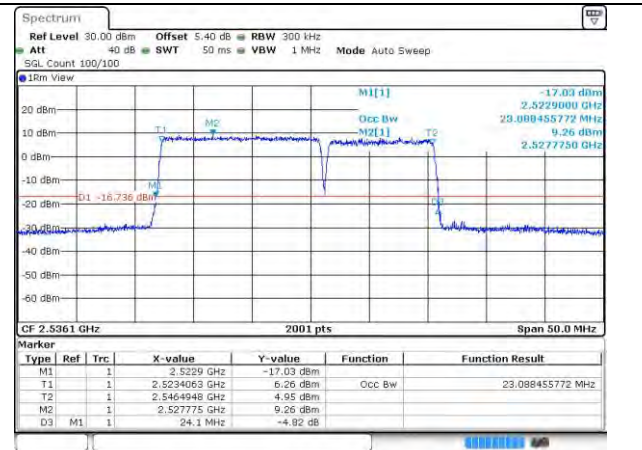
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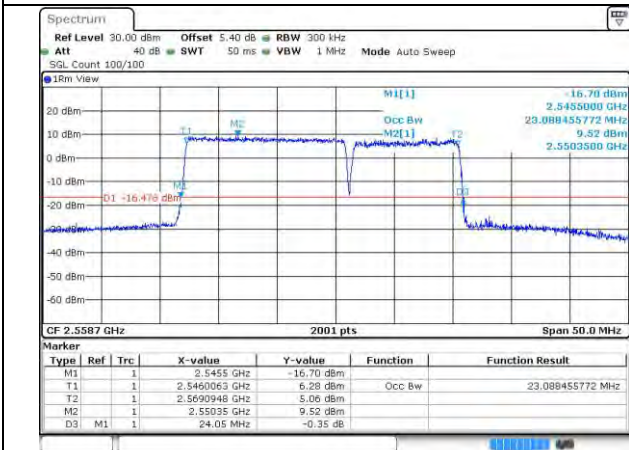
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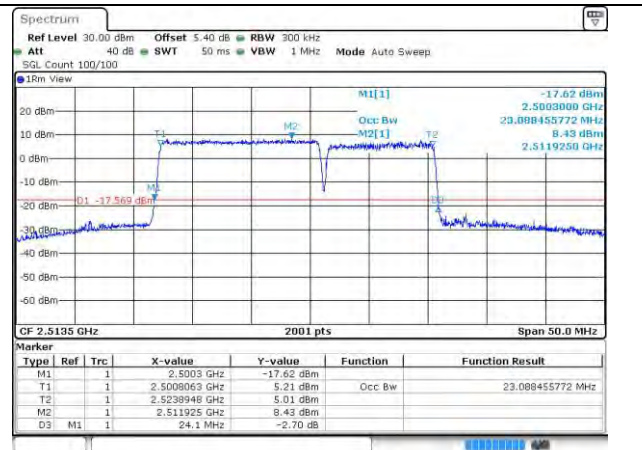
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#0-50RB#0



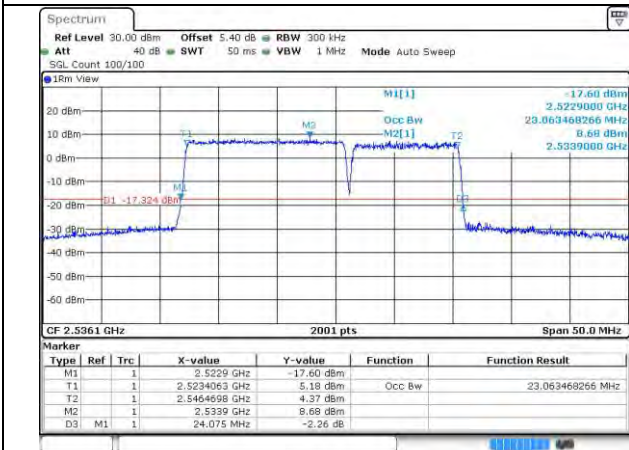
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0-50RB#0



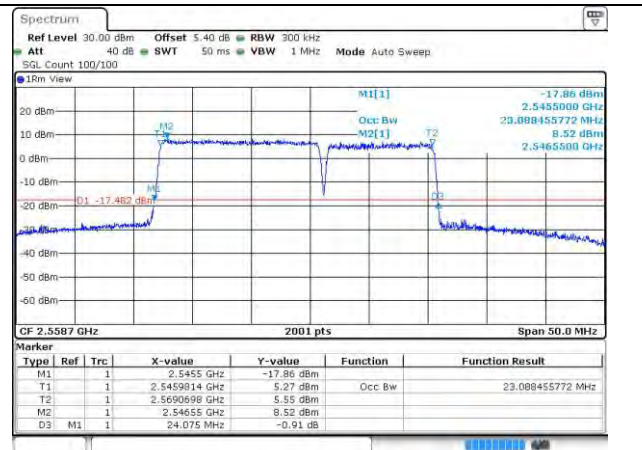
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#0-50RB#0



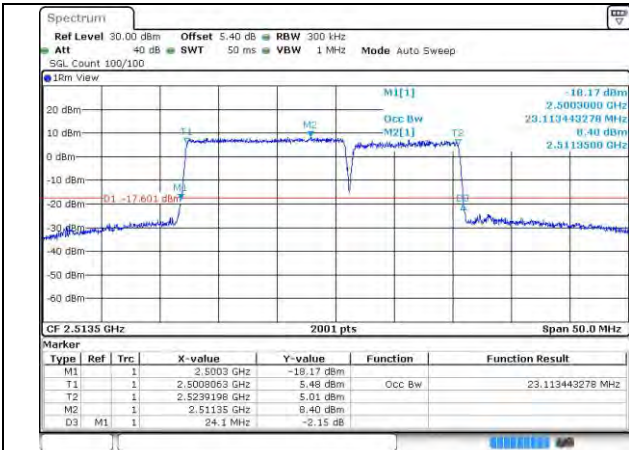
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RB#0-50RB#0



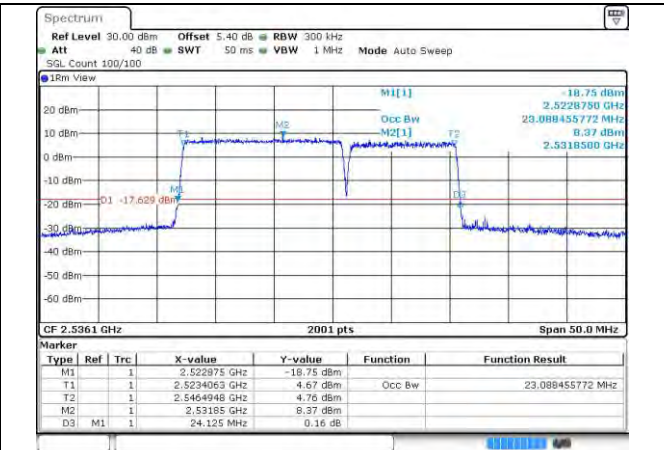
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RB#0-50RB#0



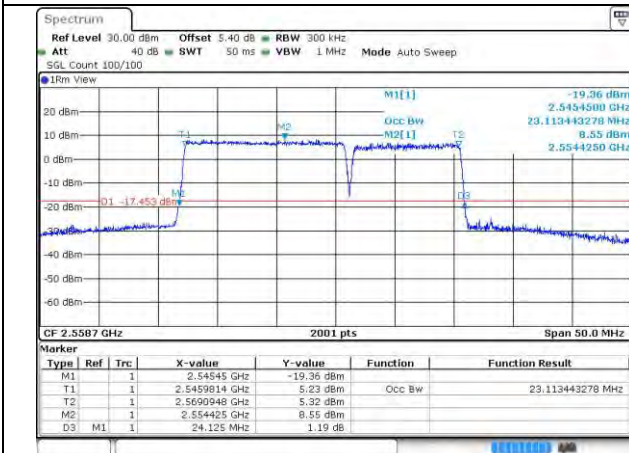
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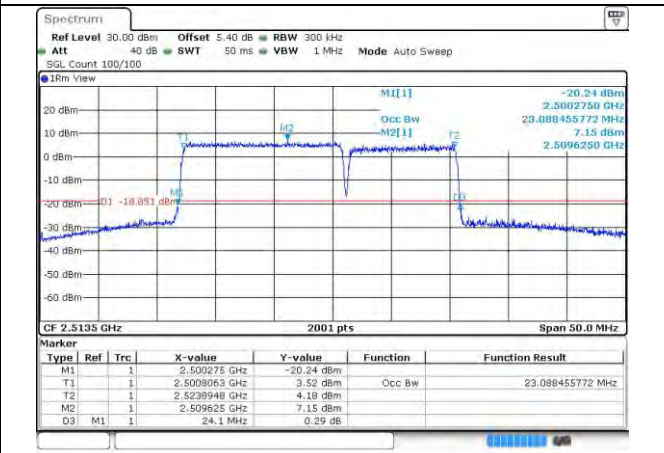
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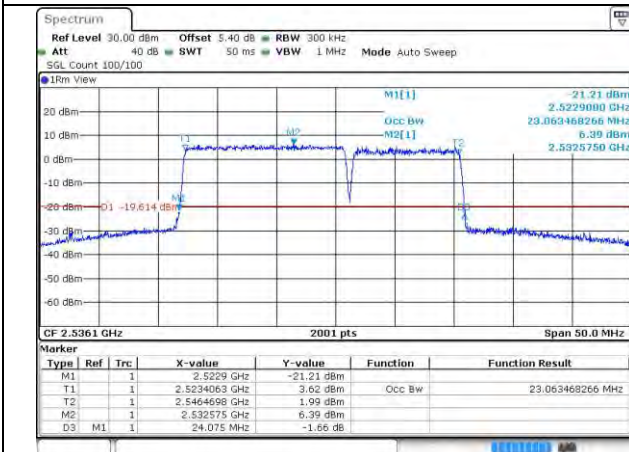
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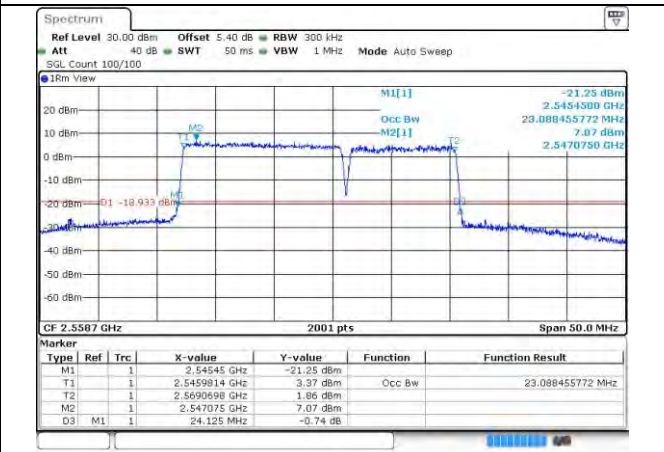
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RB#0-50RB#0



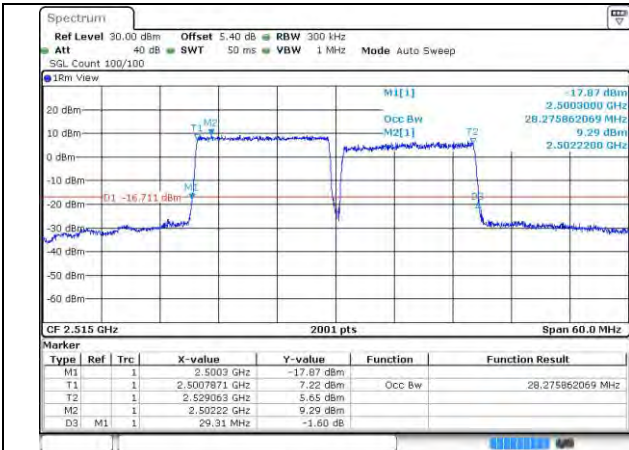
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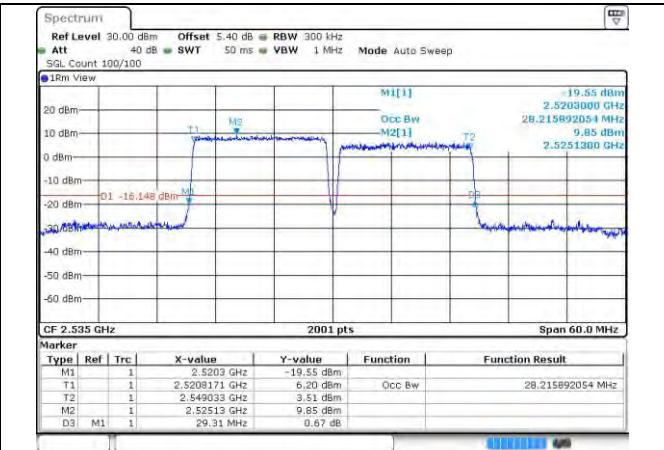
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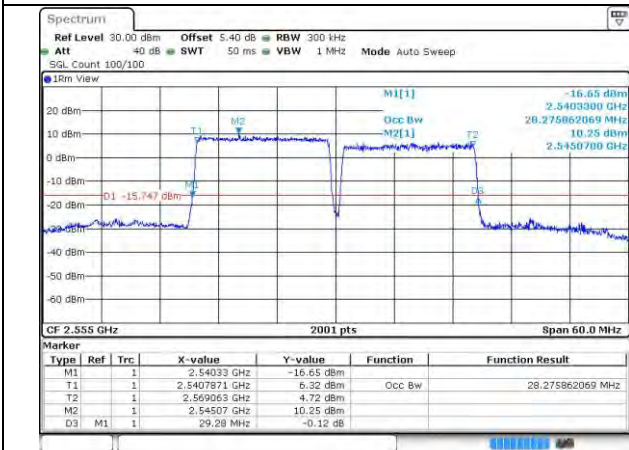
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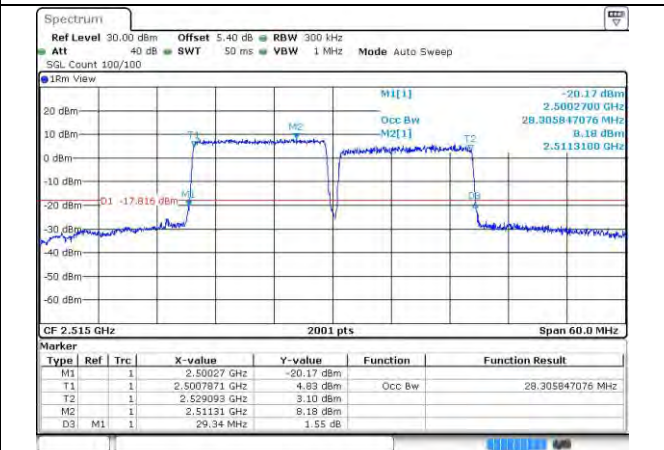
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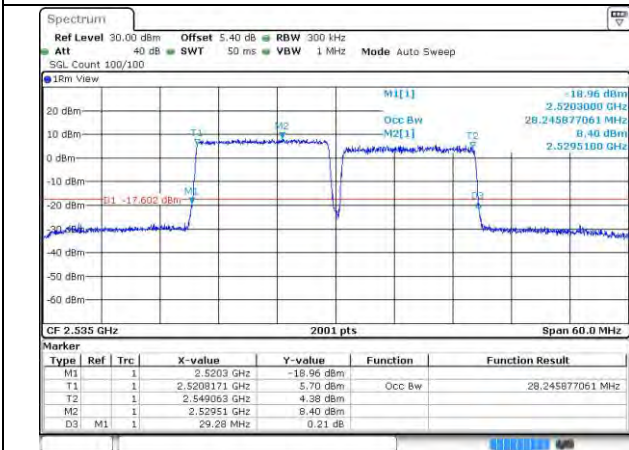
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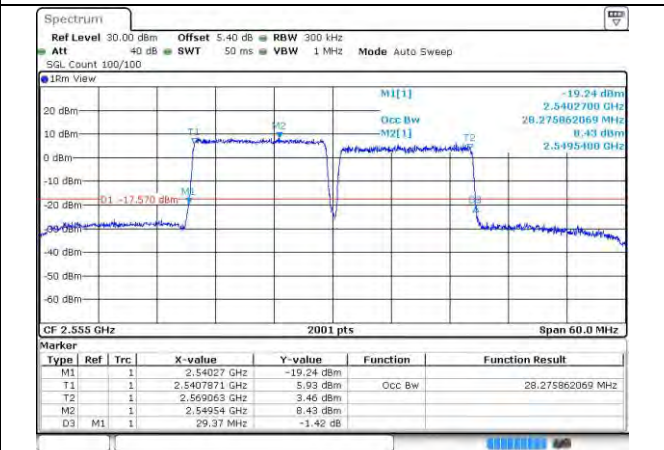
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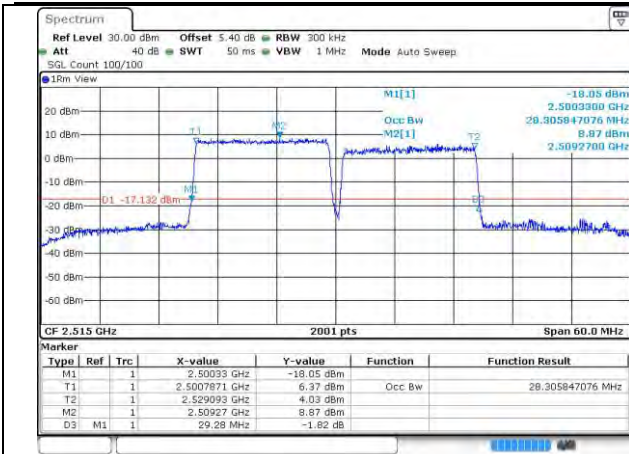
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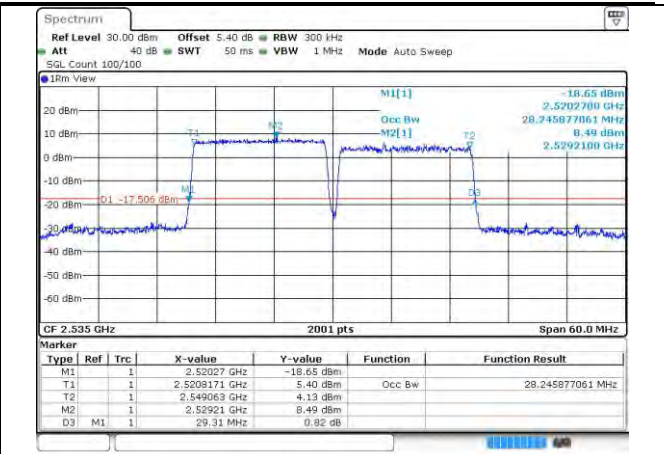
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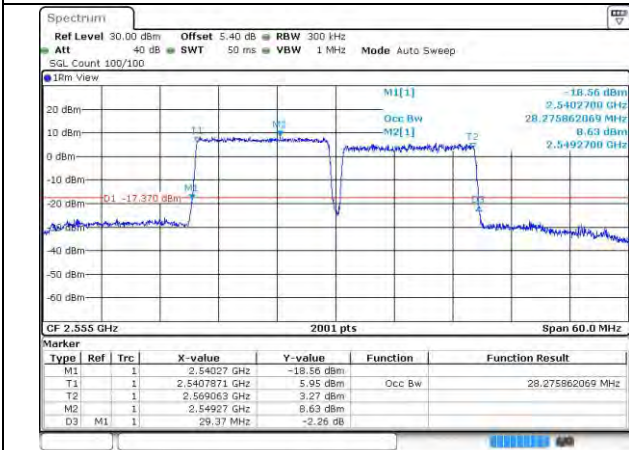
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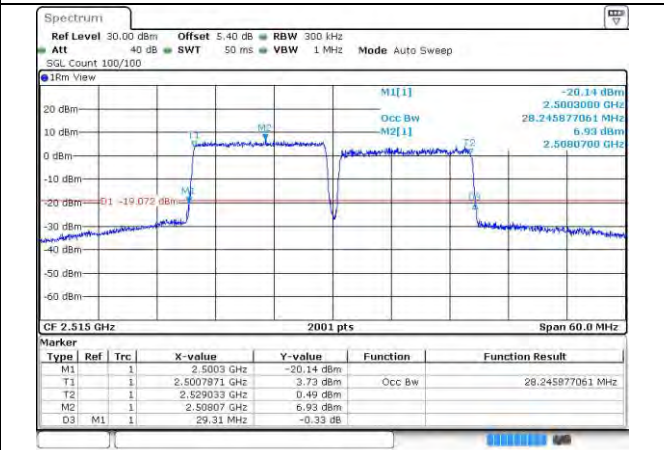
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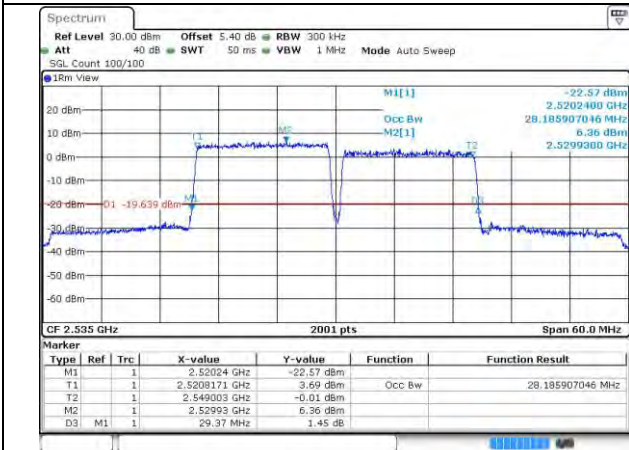
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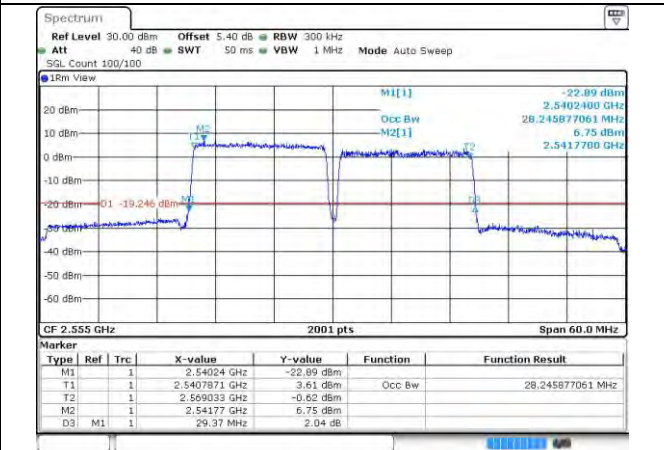
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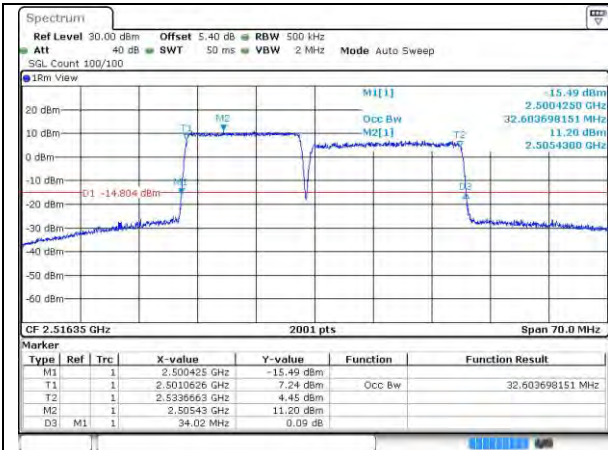
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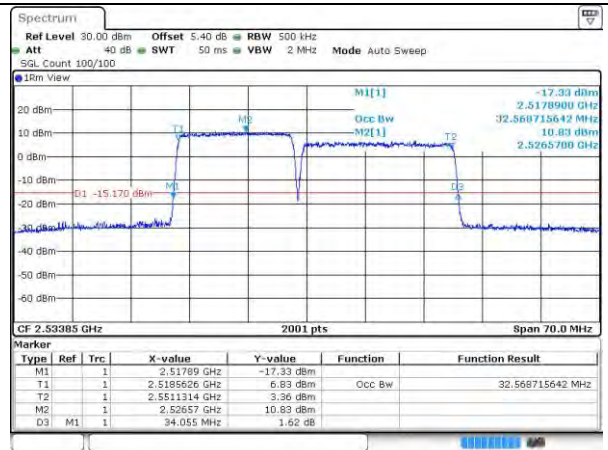
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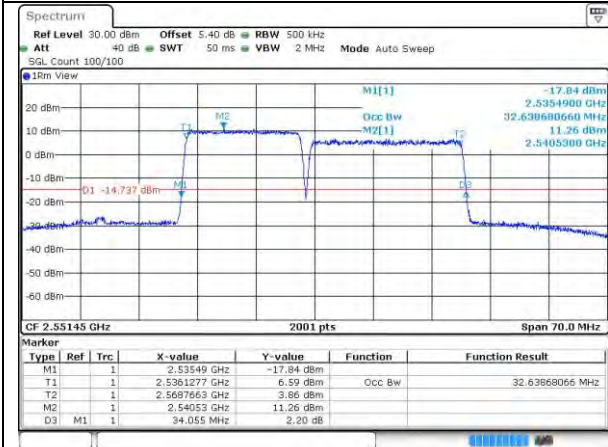
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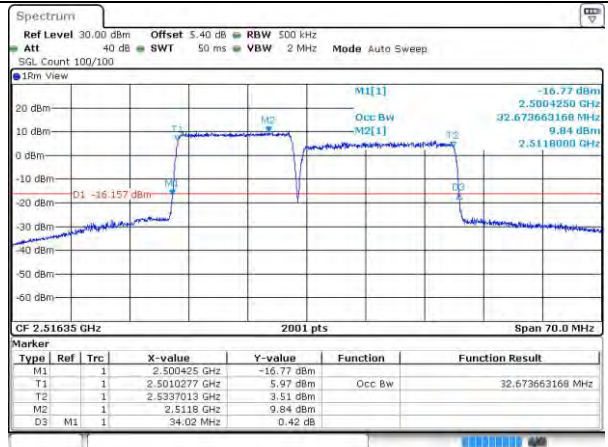
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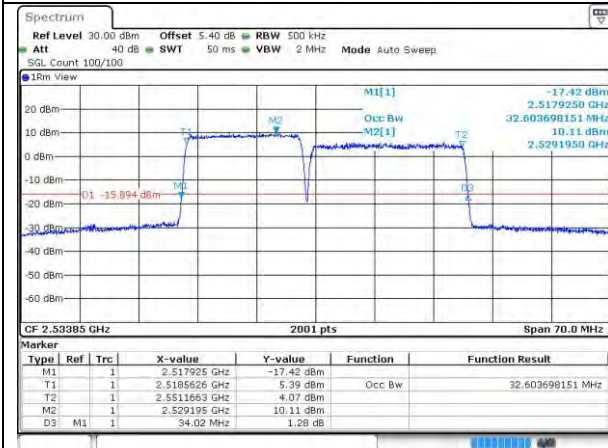
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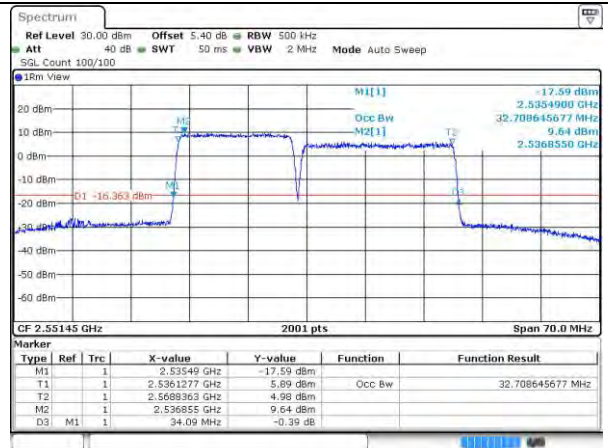
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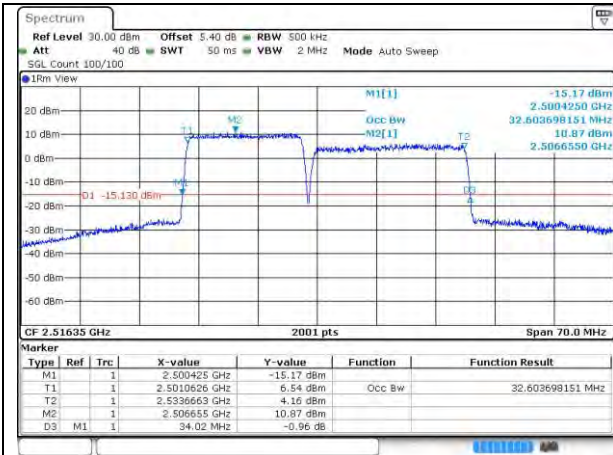
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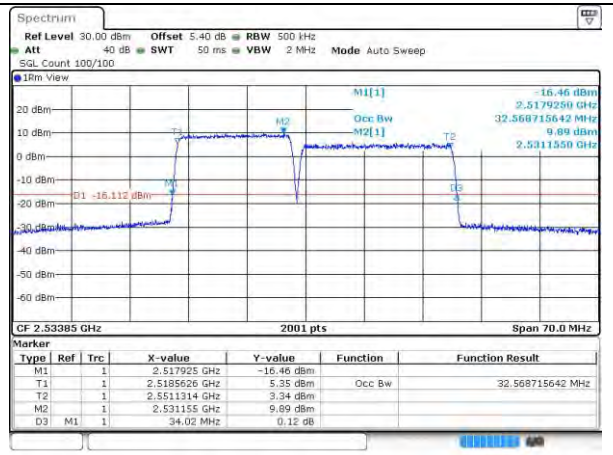
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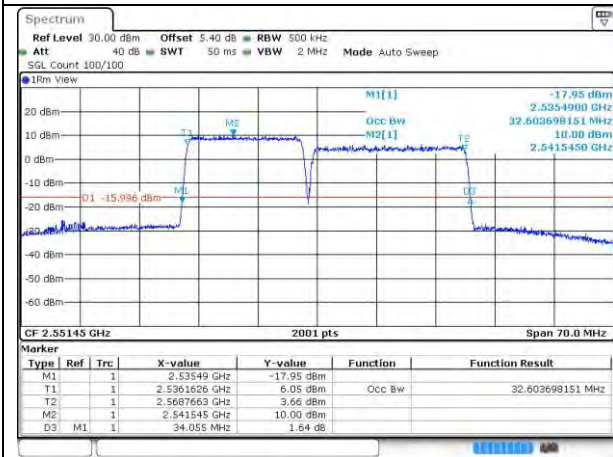
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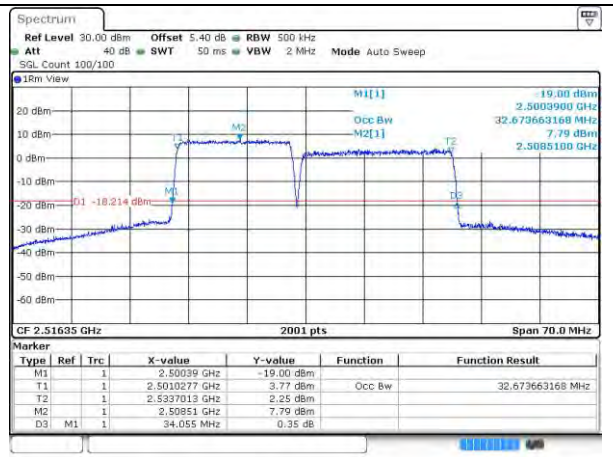
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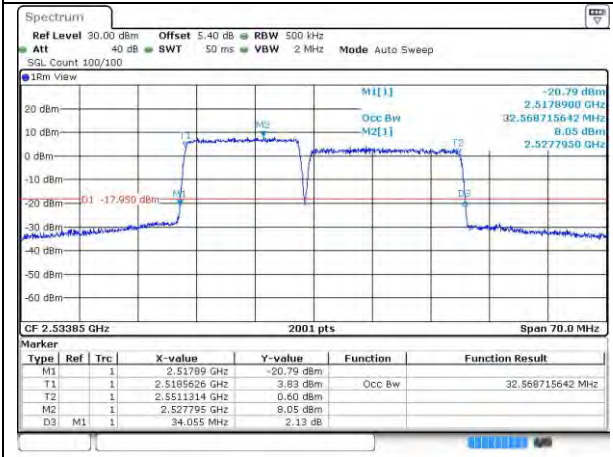
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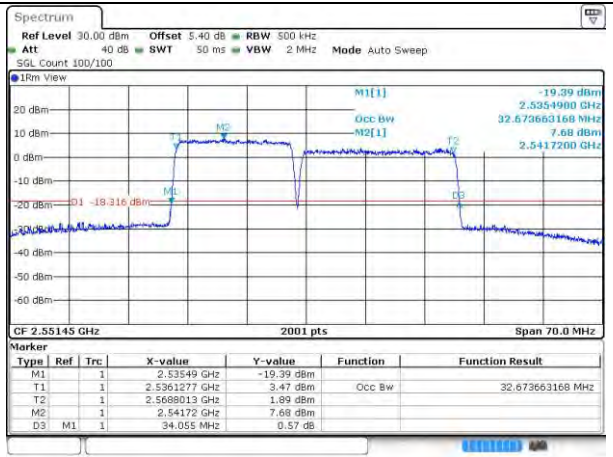
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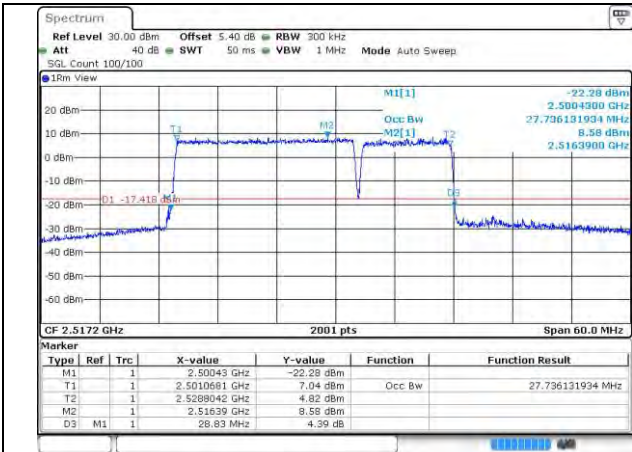
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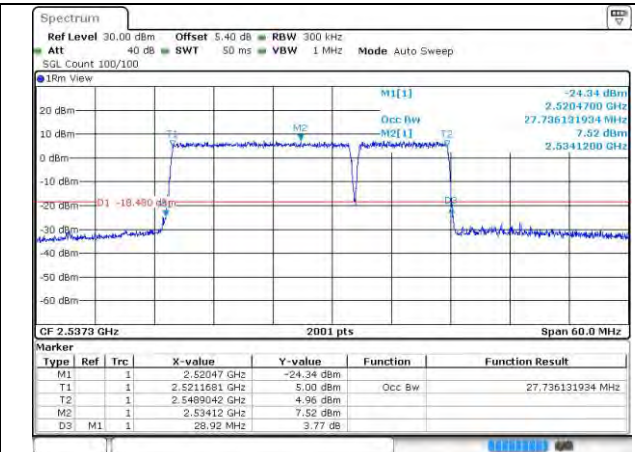
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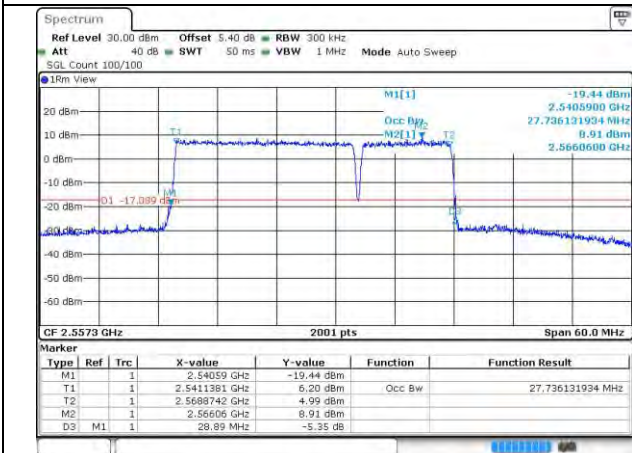
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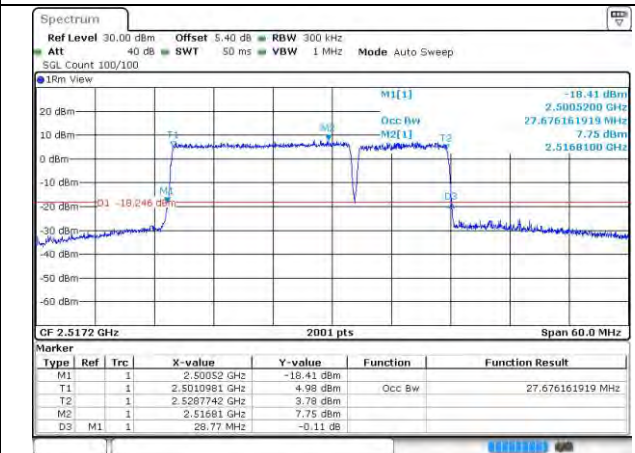
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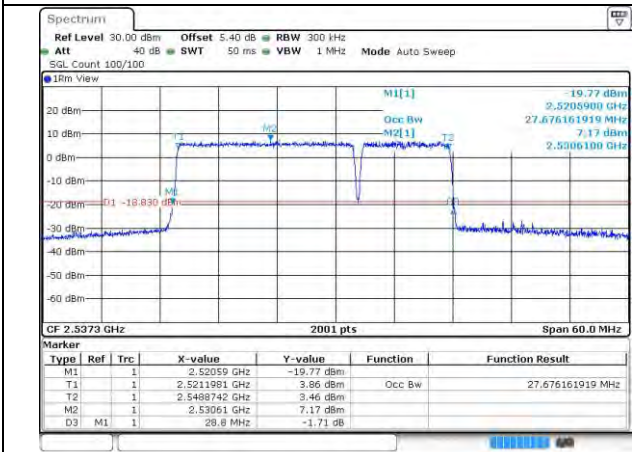
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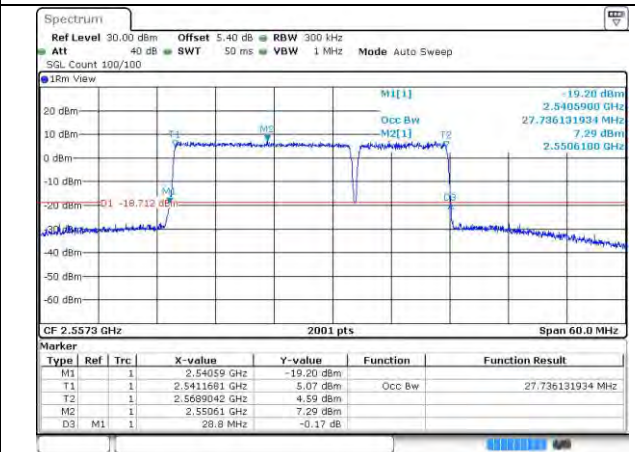
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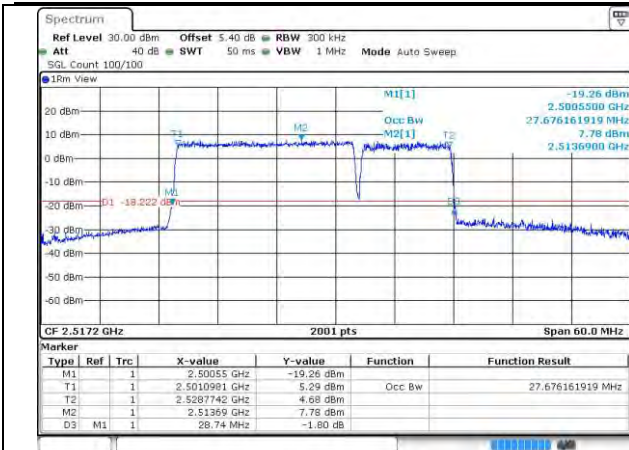
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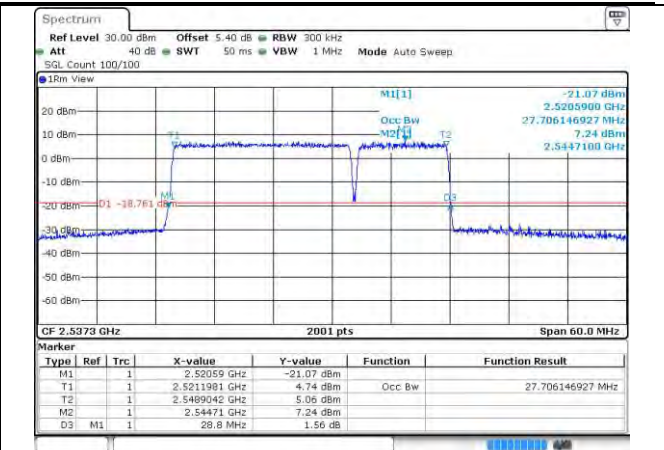
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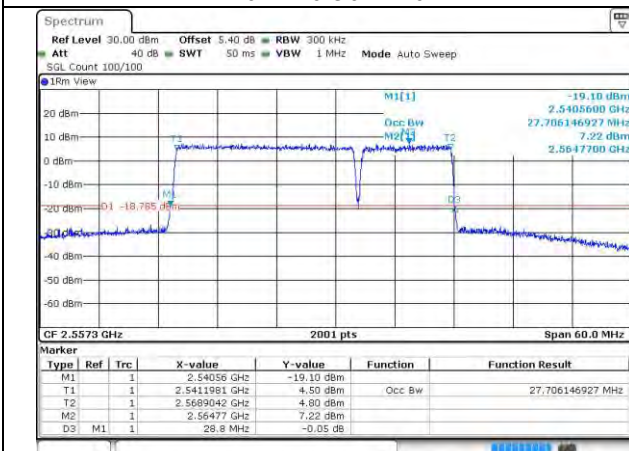
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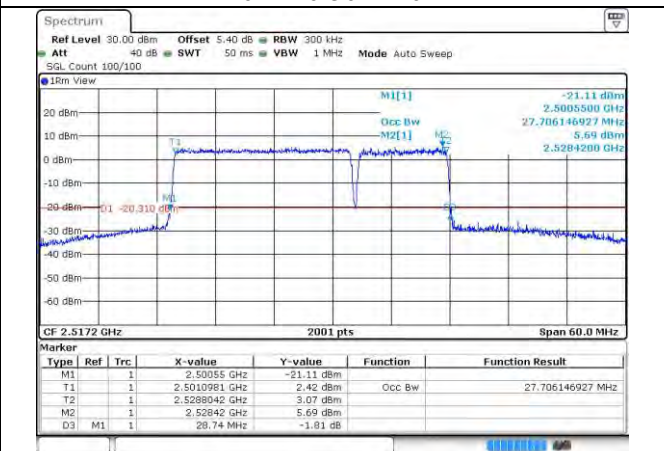
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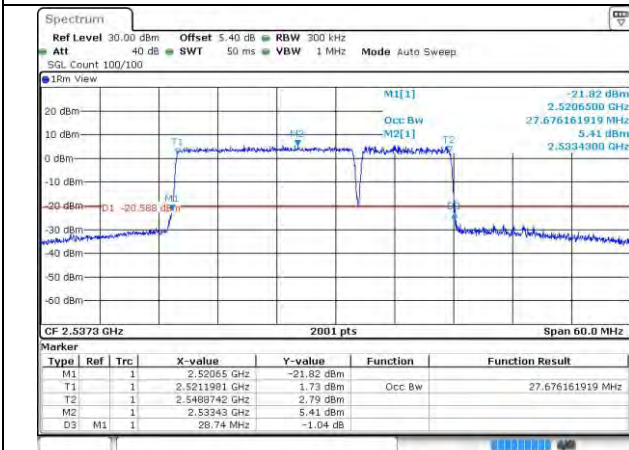
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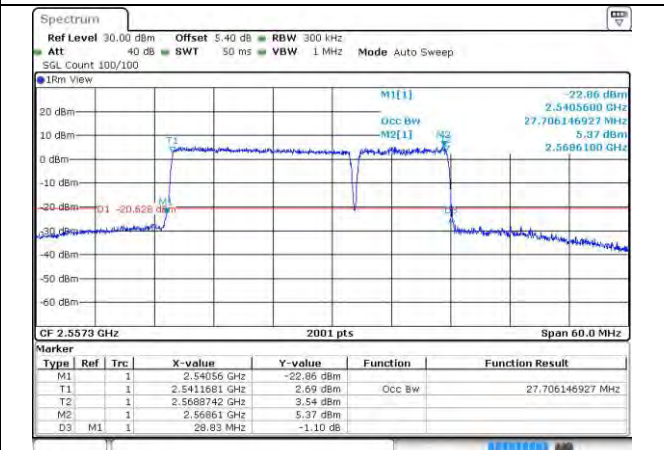
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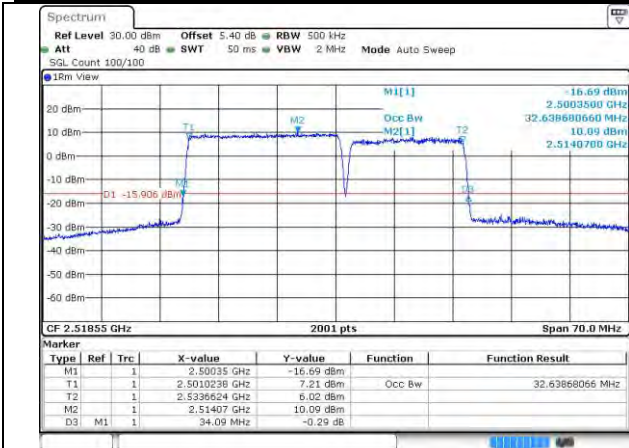
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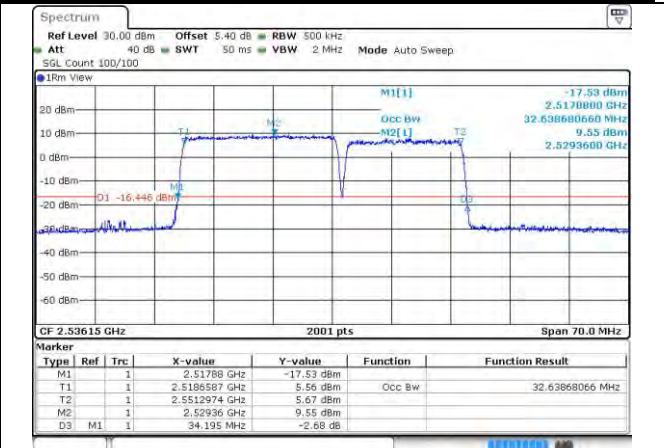
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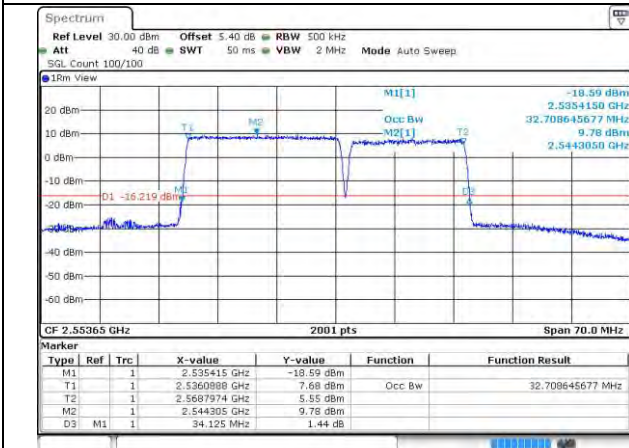
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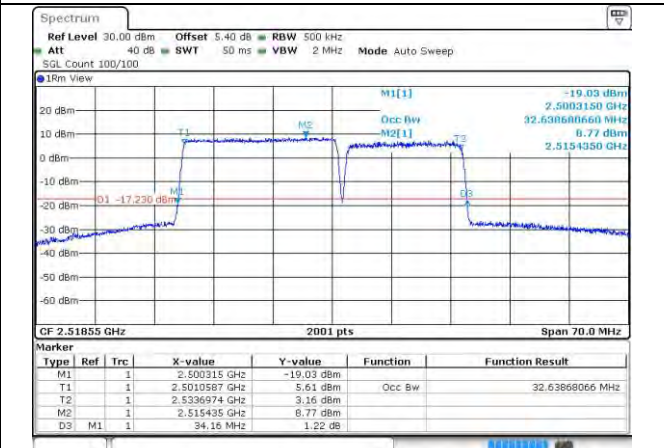
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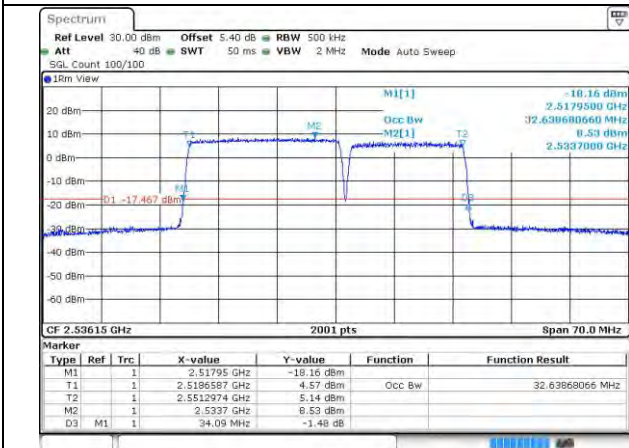
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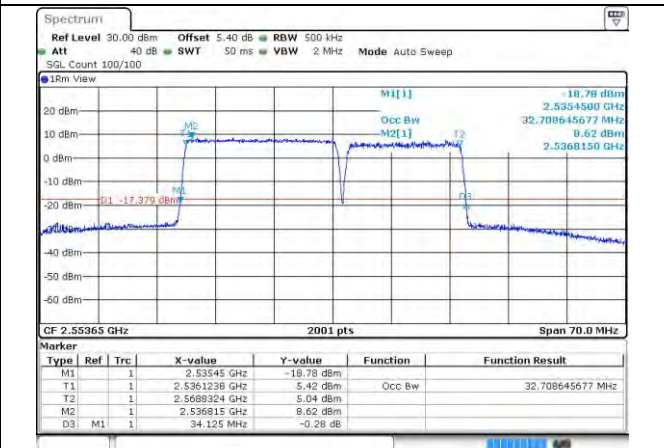
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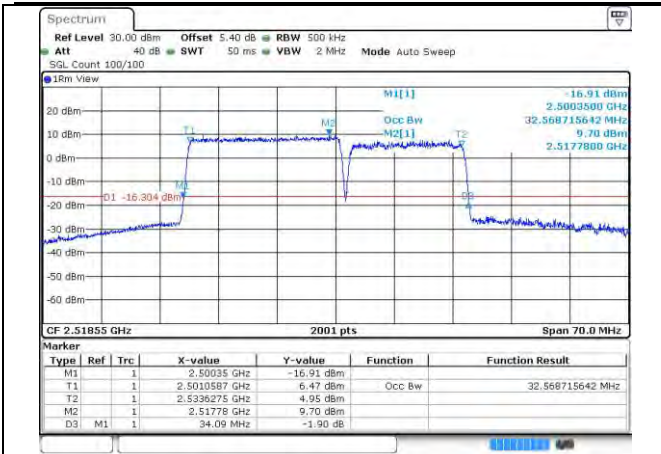
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ORB#0-75RB#0



7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-10
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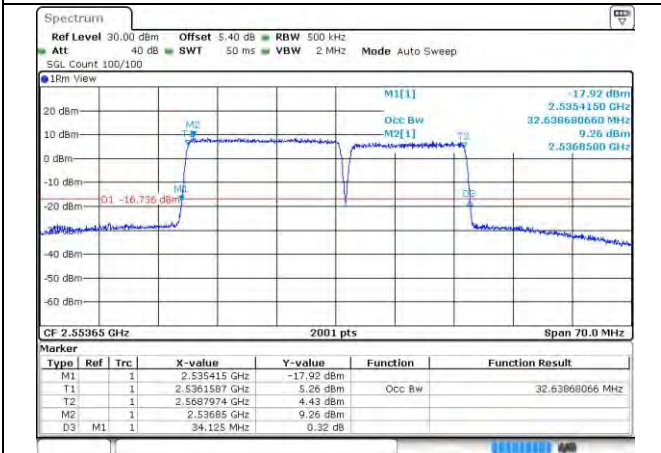
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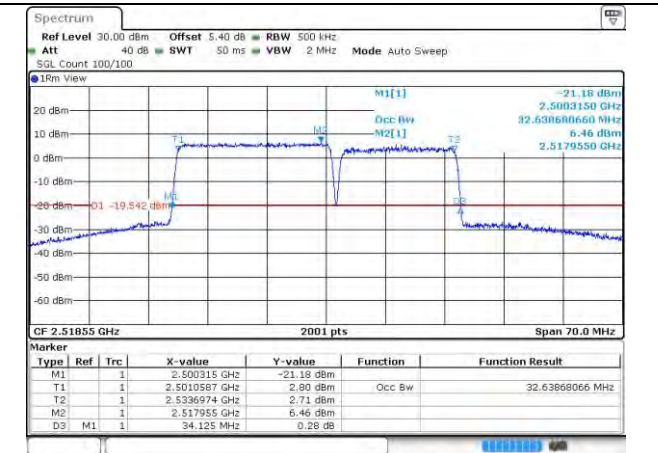
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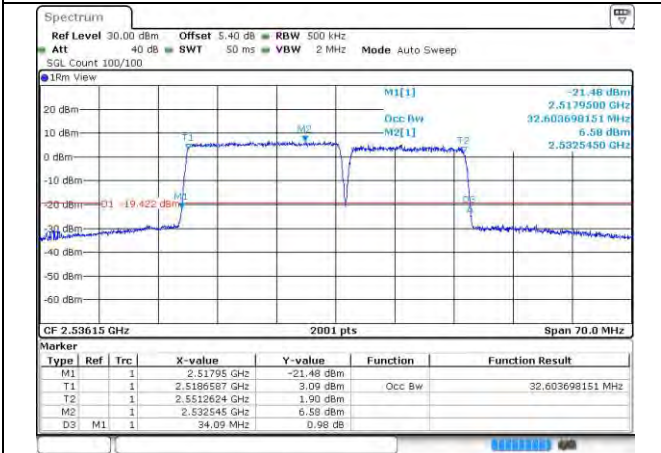
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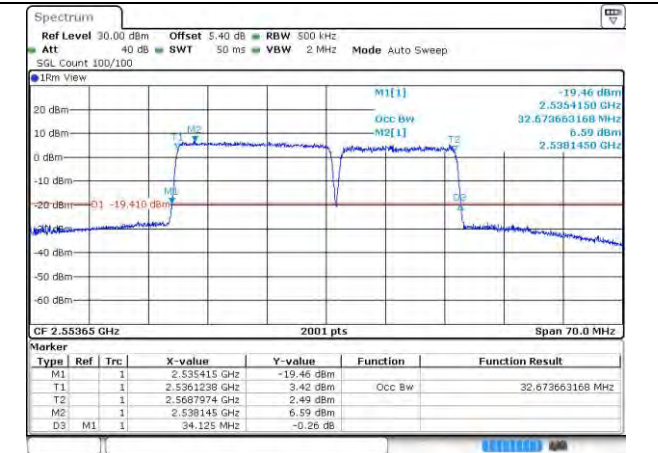
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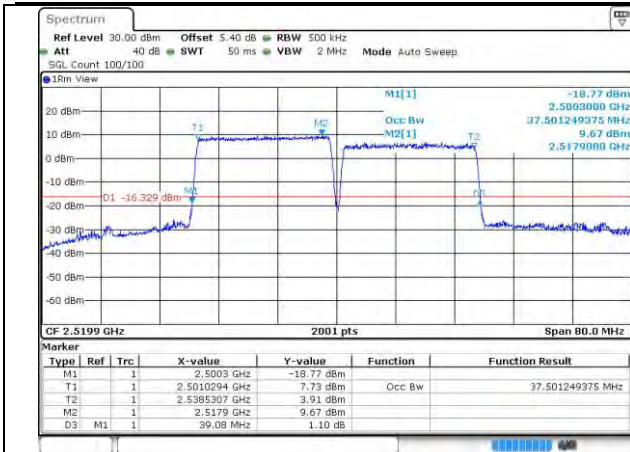
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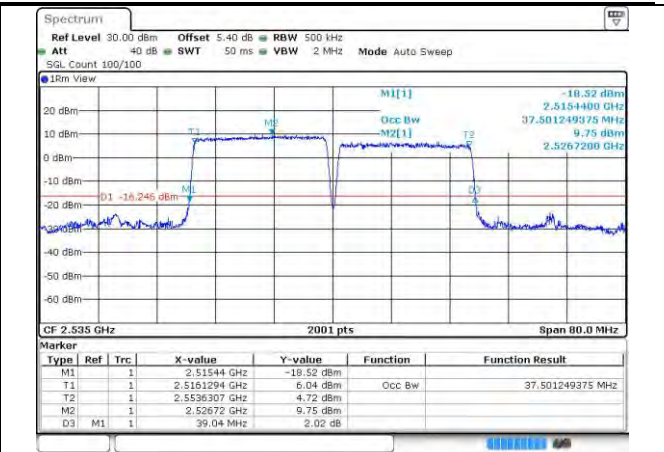
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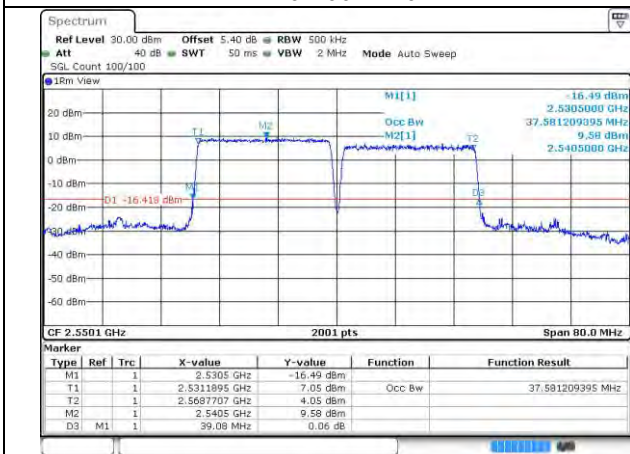
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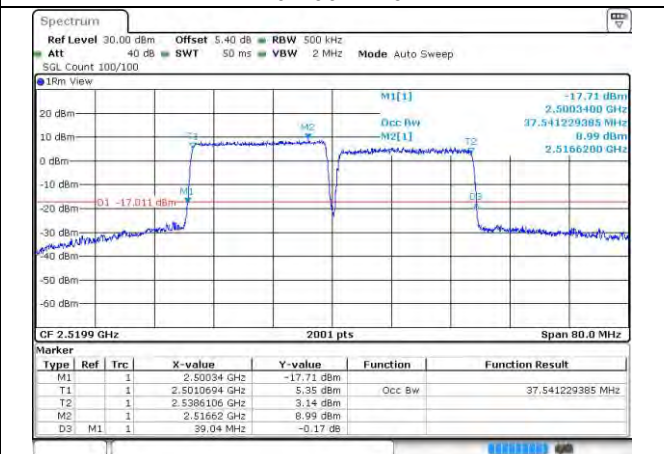
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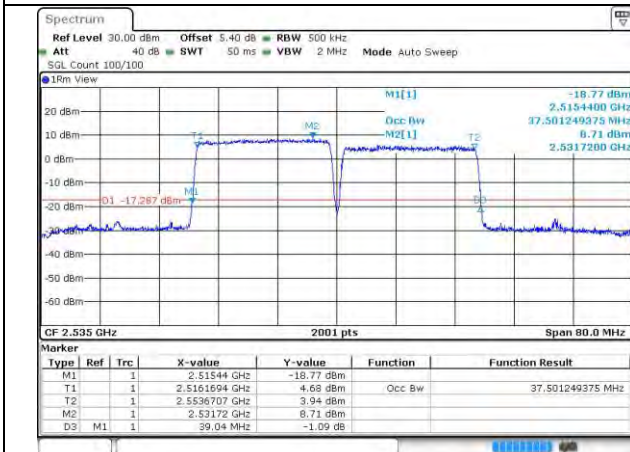
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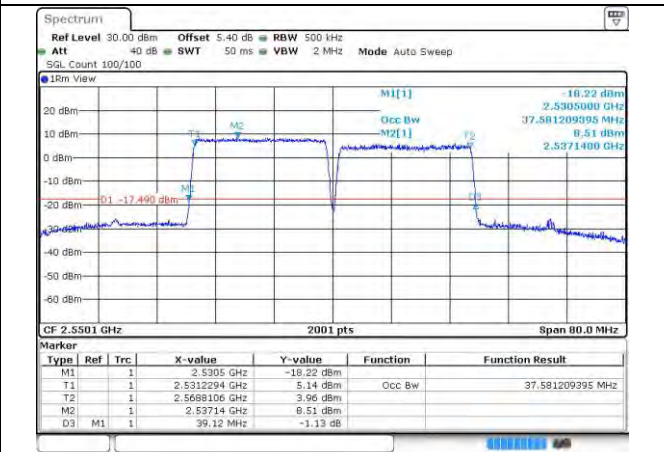
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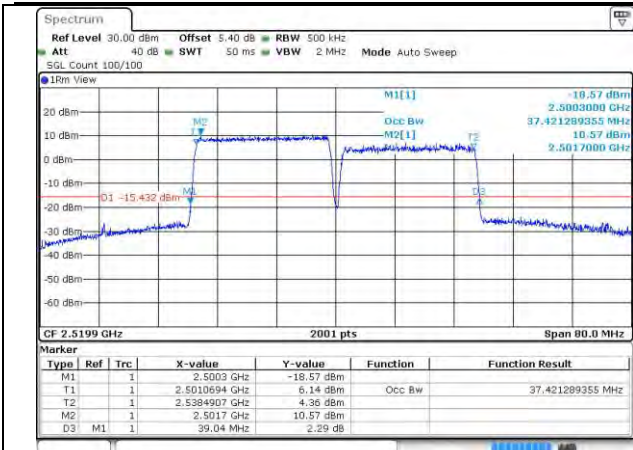
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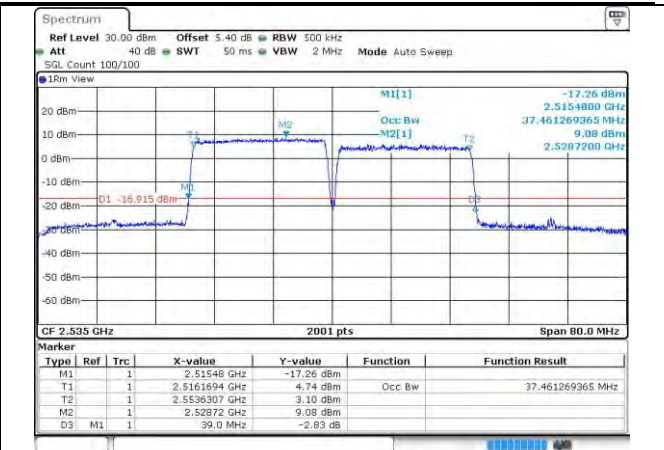
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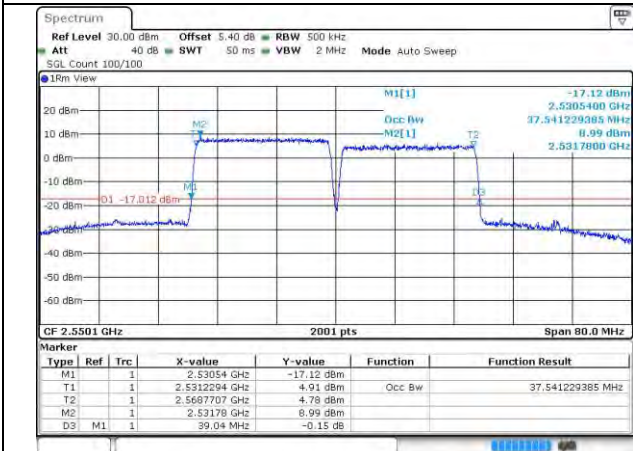
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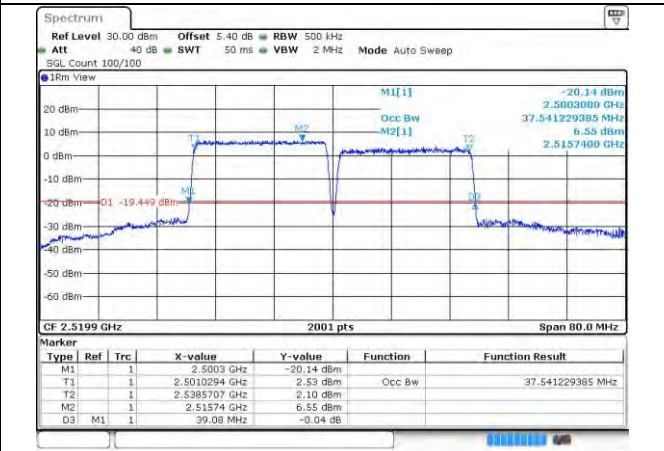
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ORB#0-100RB#0



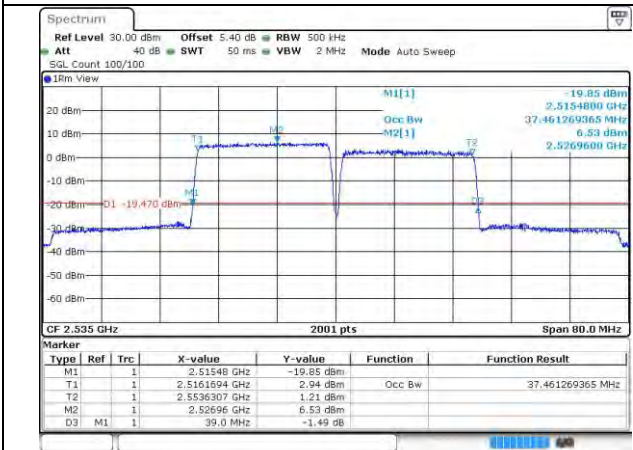
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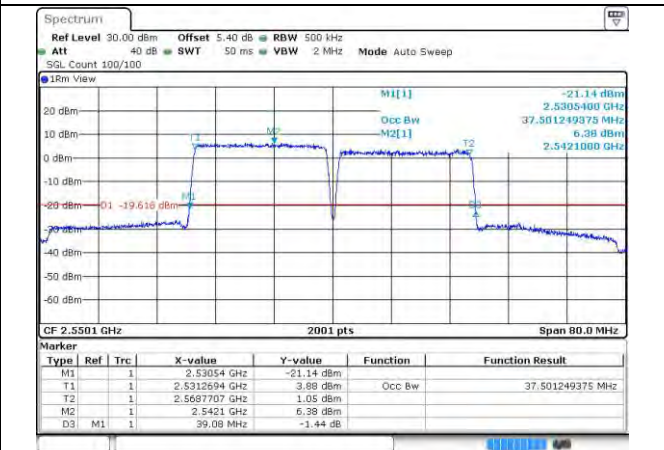
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7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-
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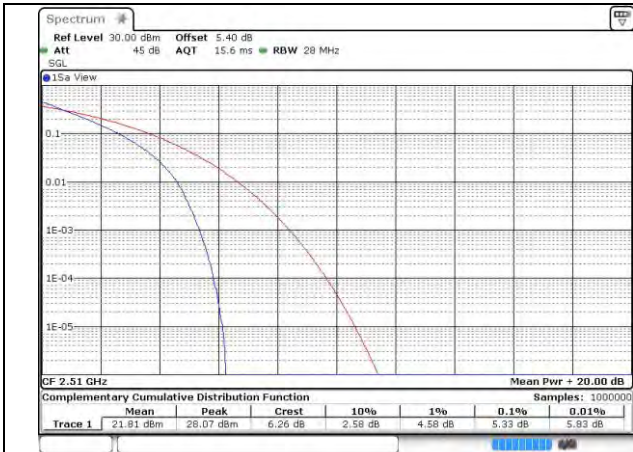
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100RB#0-100RB#0



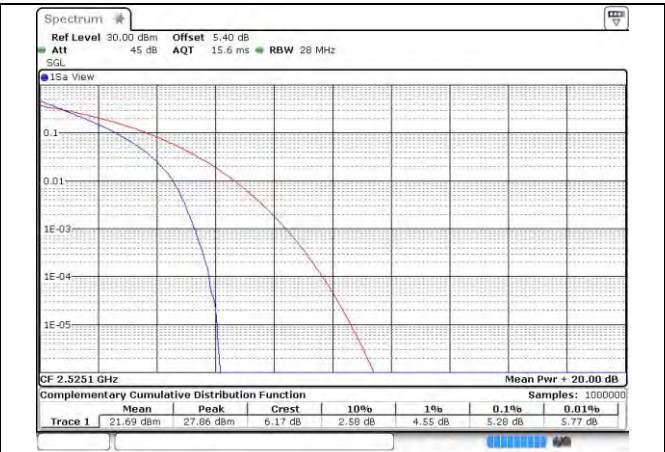
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100RB#0-100RB#0

3 Peak-Average Ratio

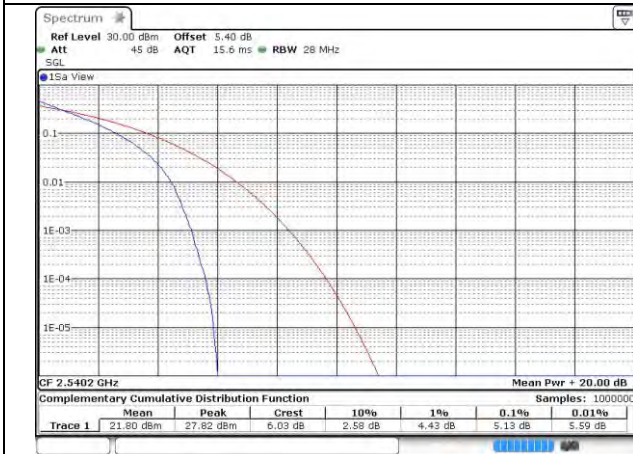
Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]
CA_7C	QPSK	100RB+100RB	21048+20850	100RB#0	100RB#0	5.33	13.00
			21199+21001	100RB#0	100RB#0	5.28	13.00
			21350+21152	100RB#0	100RB#0	5.13	13.00
	16QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.23	13.00
			21199+21001	100RB#0	100RB#0	6.17	13.00
			21350+21152	100RB#0	100RB#0	6.00	13.00
	64QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.23	13.00
			21199+21001	100RB#0	100RB#0	6.14	13.00
			21350+21152	100RB#0	100RB#0	6.00	13.00
	256QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	7.25	13.00
			21199+21001	100RB#0	100RB#0	7.19	13.00
			21350+21152	100RB#0	100RB#0	7.13	13.00



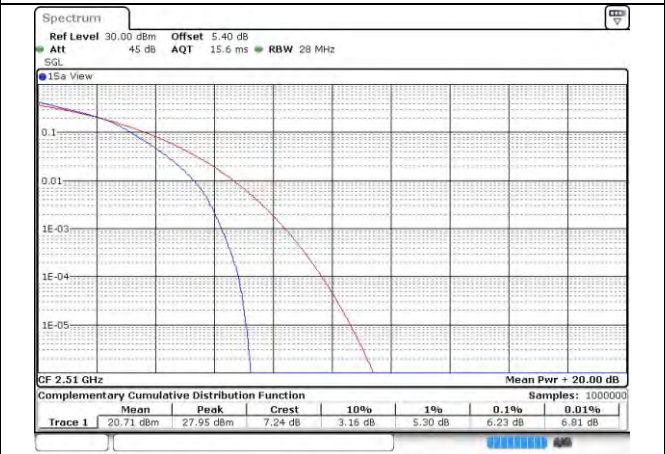
CA_7C_100RB+100RB_QPSK_21048+20850_100RB#0+100RB#0



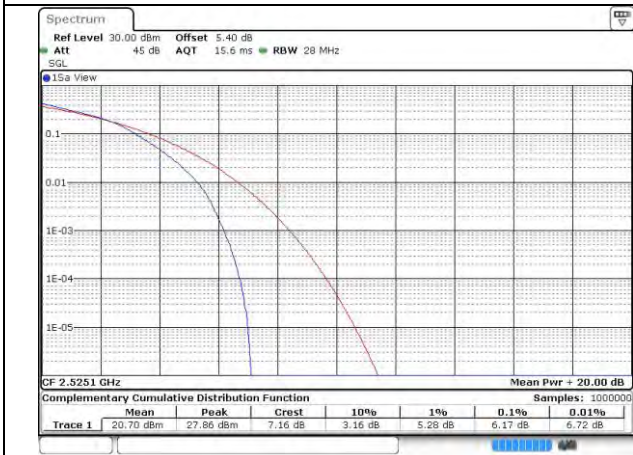
CA_7C_100RB+100RB_QPSK_21199+21001_100RB#0+100RB#0



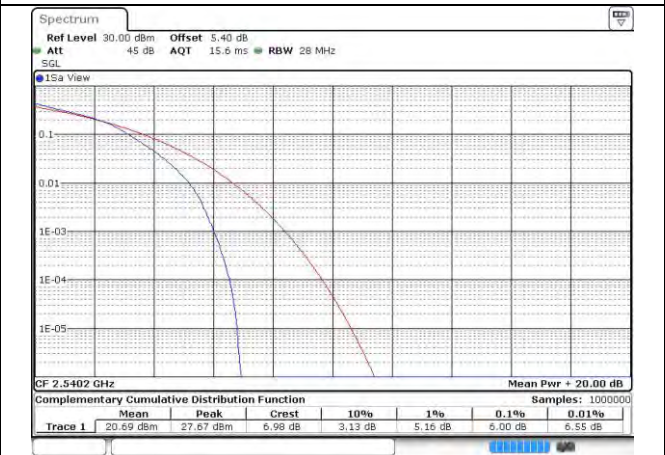
CA_7C_100RB+100RB_QPSK_21350+21152_100RB#0+100RB#0



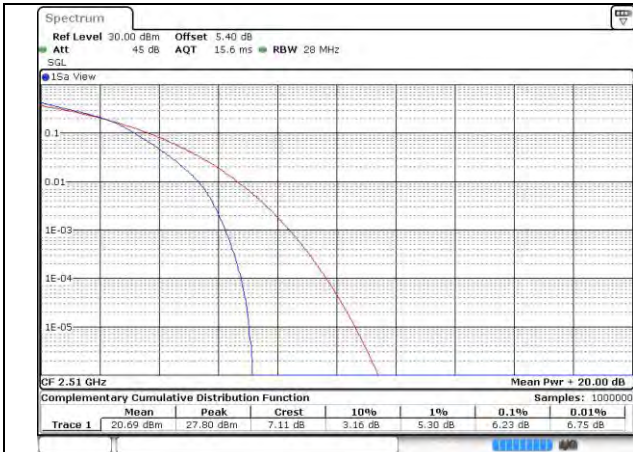
CA_7C_100RB+100RB_16QAM_21048+20850_100RB#0+100RB#0



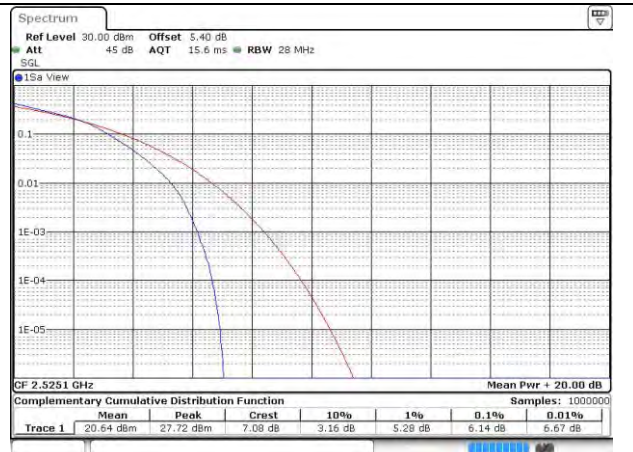
CA_7C_100RB+100RB_16QAM_21199+21001_100RB#0+100RB#0



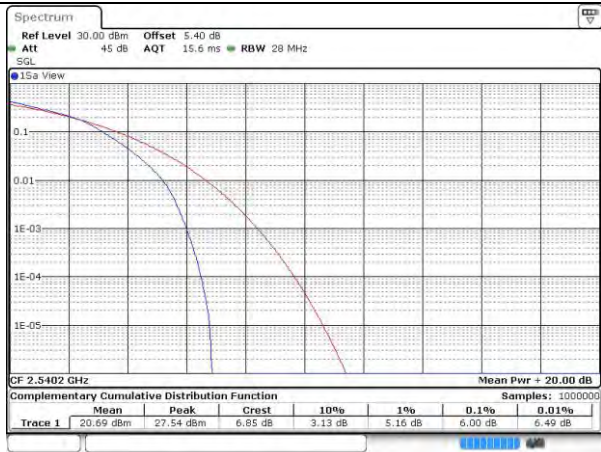
CA_7C_100RB+100RB_16QAM_21350+21152_100RB#0+100RB#0



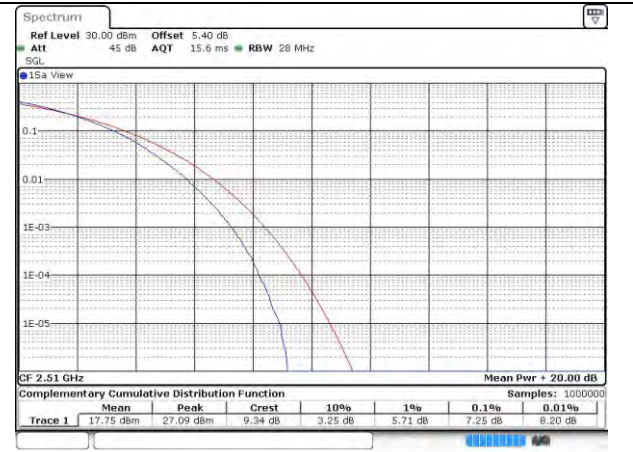
CA_7C_100RB+100RB_64QAM_21048+20850_10
ORB#0+100RB#0



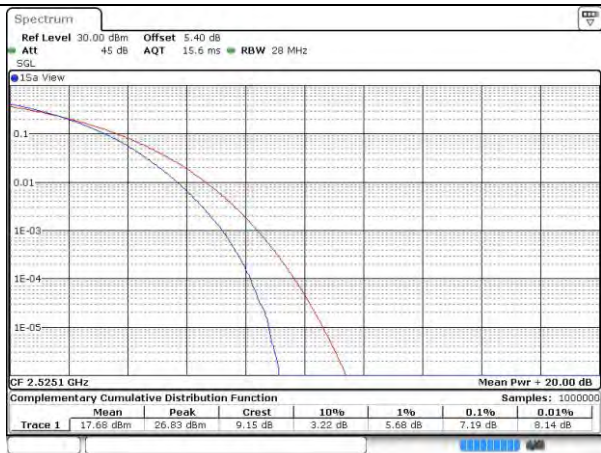
CA_7C_100RB+100RB_64QAM_21199+21001_100
RB#0+100RB#0



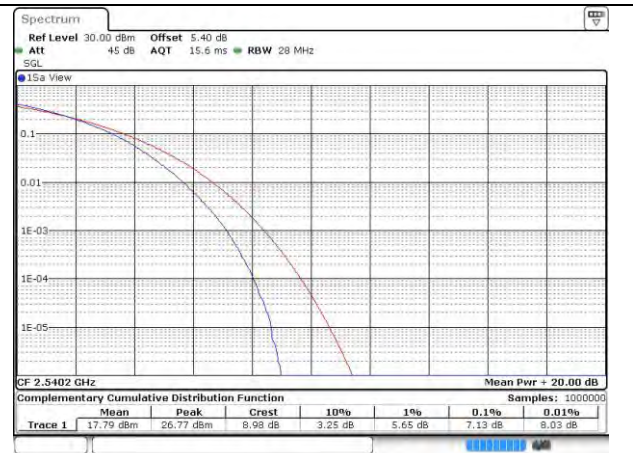
CA_7C_100RB+100RB_64QAM_21350+21152_100
RB#0+100RB#0



CA_7C_100RB+100RB_256QAM_21048+20850_1
00RB#0+100RB#0

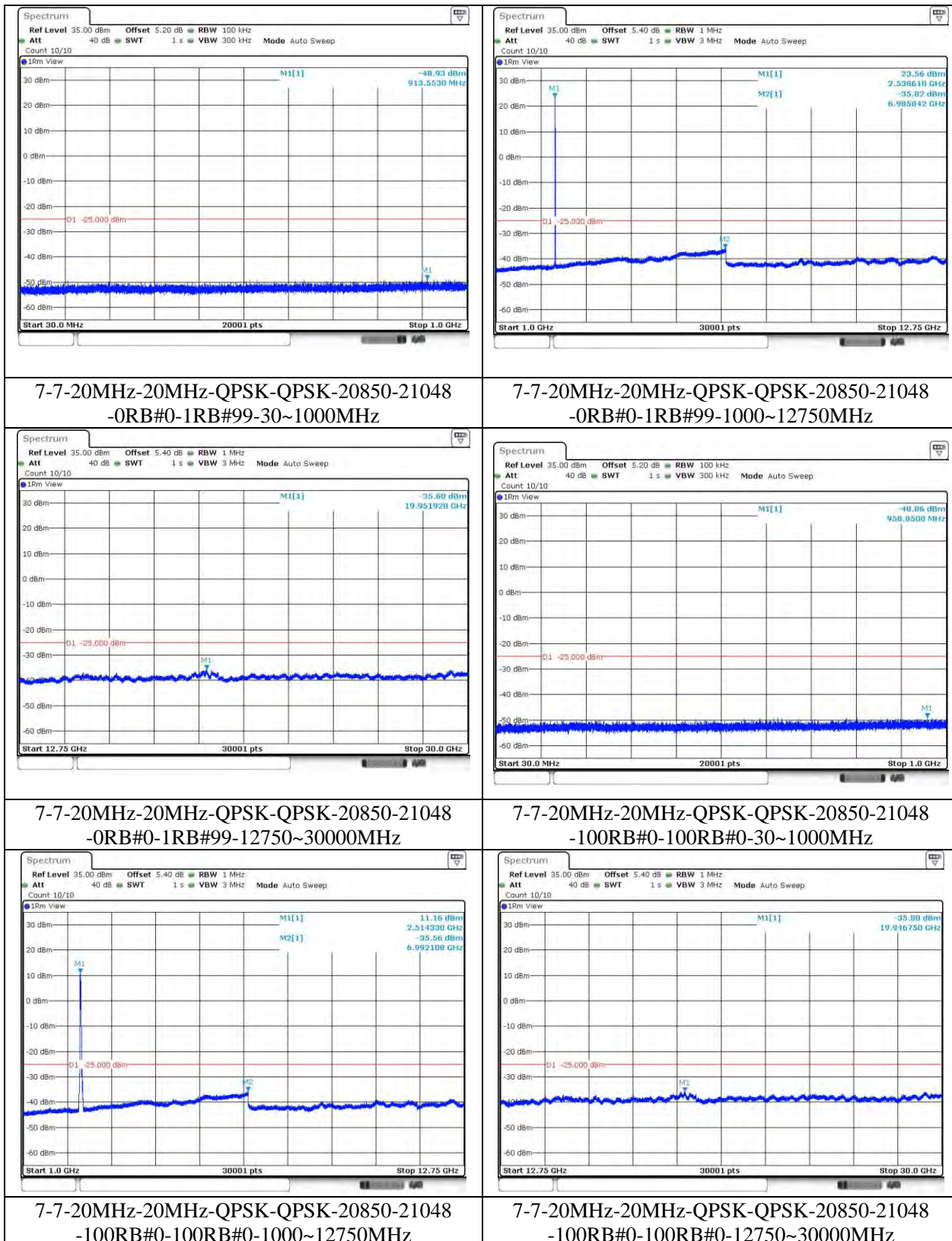


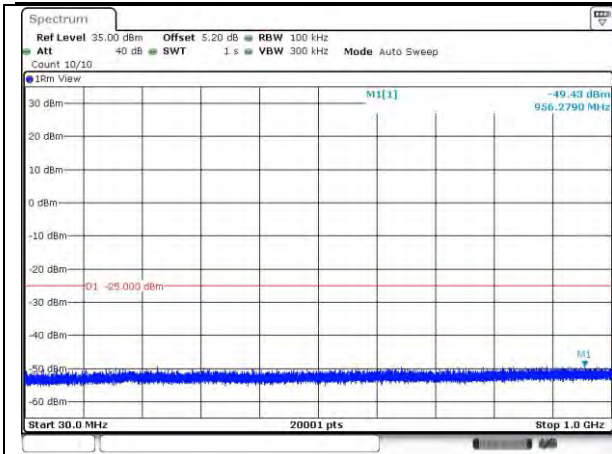
CA_7C_100RB+100RB_256QAM_21199+21001_10
ORB#0+100RB#0



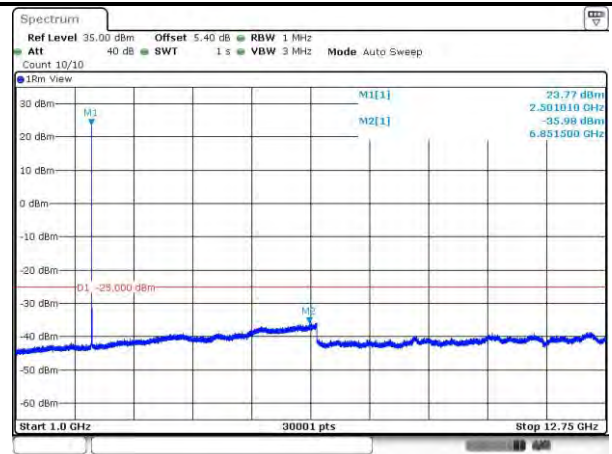
CA_7C_100RB+100RB_256QAM_21350+21152_10
ORB#0+100RB#0

4 Spurious Emissions at antenna terminal

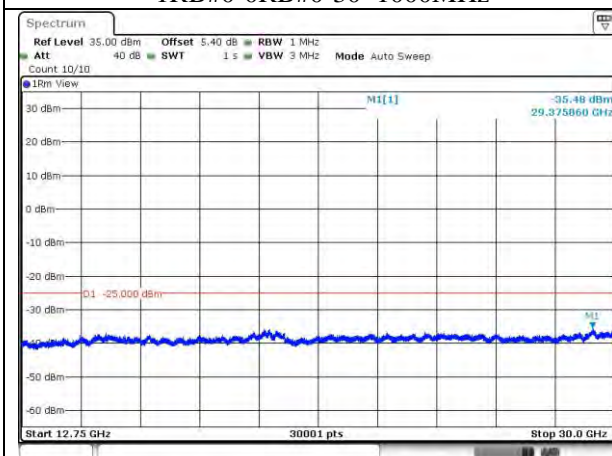




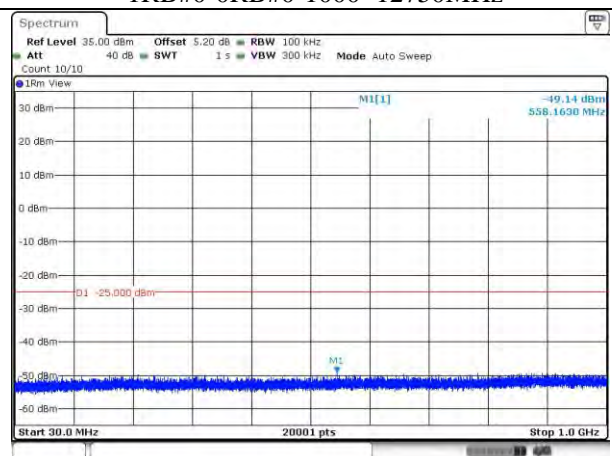
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048
-1RB#0-ORB#0-30~1000MHz



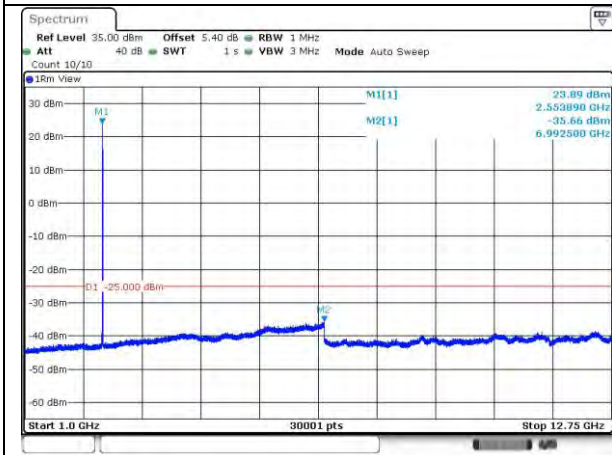
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048
-1RB#0-ORB#0-1000~12750MHz



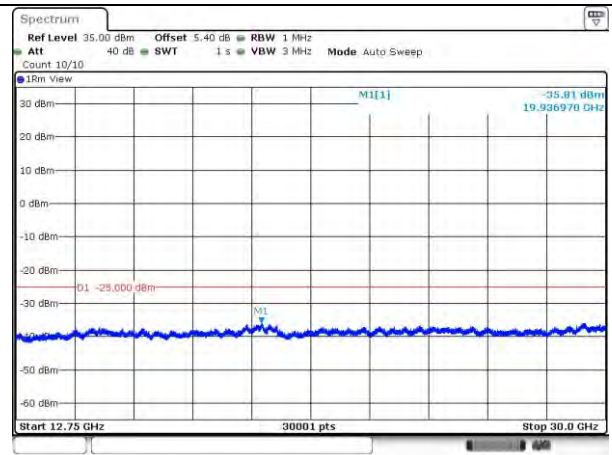
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048
-1RB#0-ORB#0-12750~30000MHz



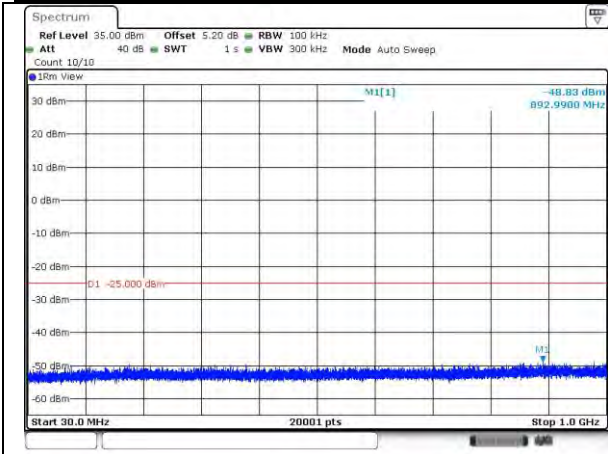
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-ORB#0-1RB#99-30~1000MHz



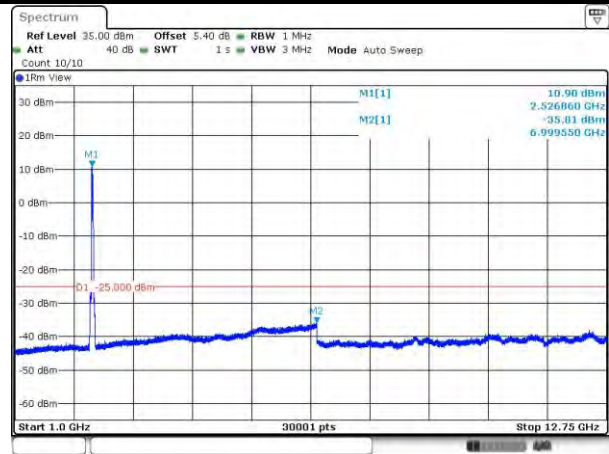
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-ORB#0-1RB#99-1000~12750MHz



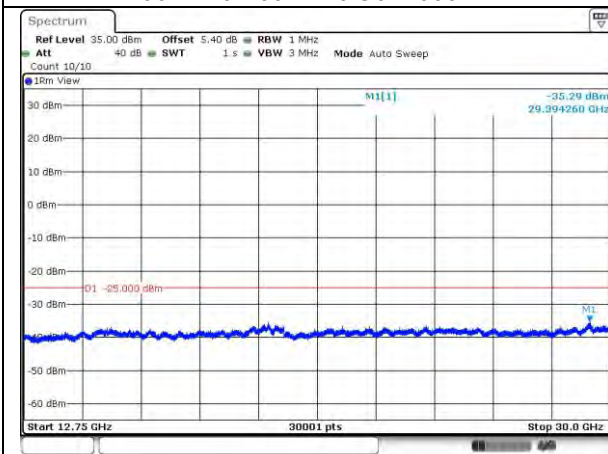
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-ORB#0-1RB#99-12750~30000MHz



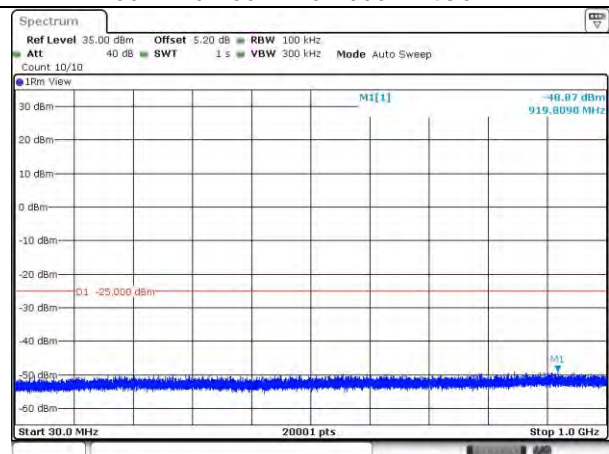
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-100RB#0-100RB#0-30~1000MHz



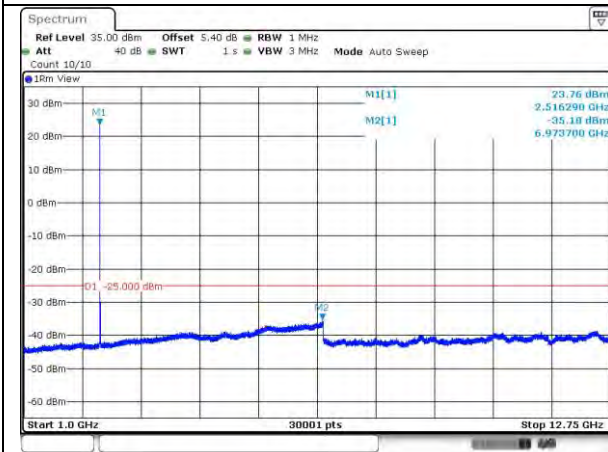
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-100RB#0-100RB#0-1000~12750MHz



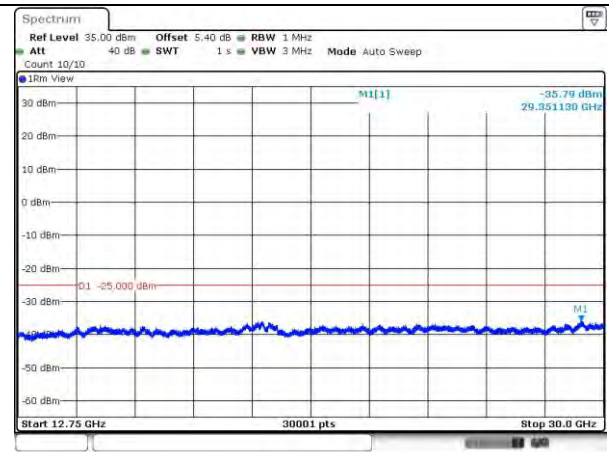
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-100RB#0-100RB#0-12750~30000MHz



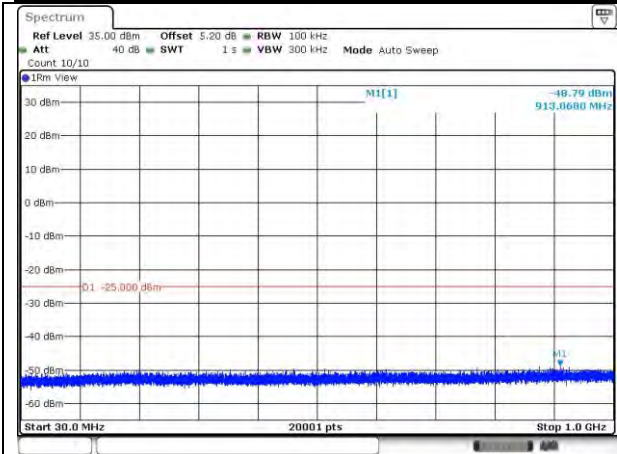
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-1RB#0-0RB#0-30~1000MHz



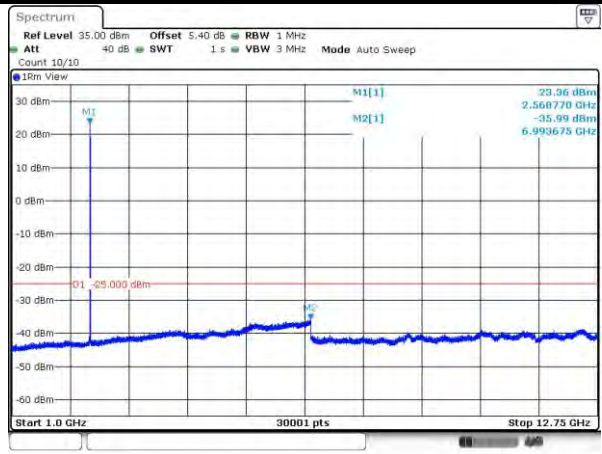
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-1RB#0-0RB#0-1000~12750MHz



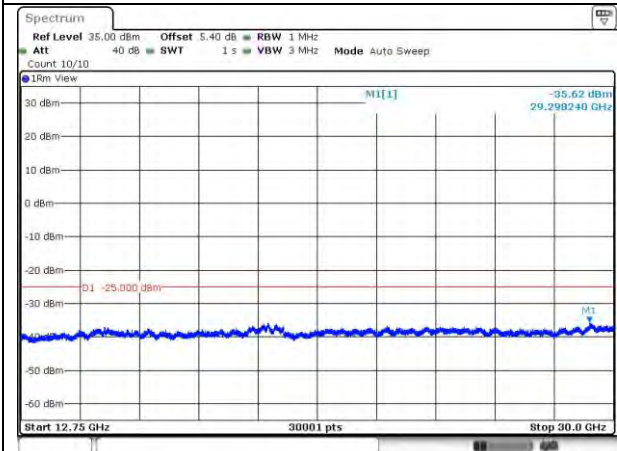
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199
-1RB#0-0RB#0-12750~30000MHz



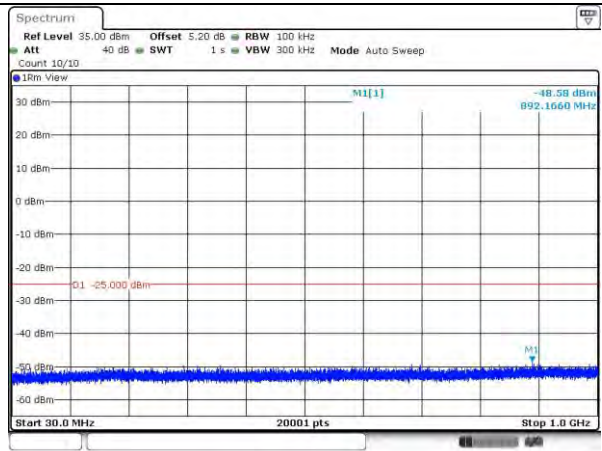
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-ORB#0-1RB#99-30~1000MHz



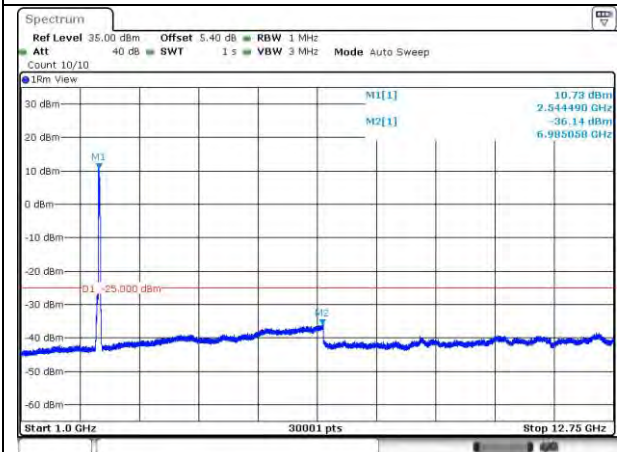
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-ORB#0-1RB#99-1000~12750MHz



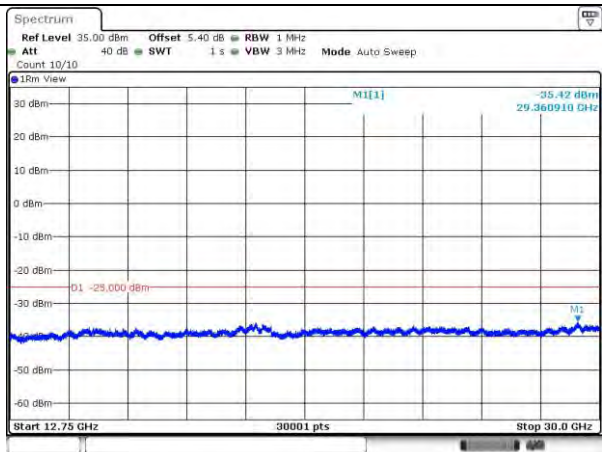
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-ORB#0-1RB#99-12750~30000MHz



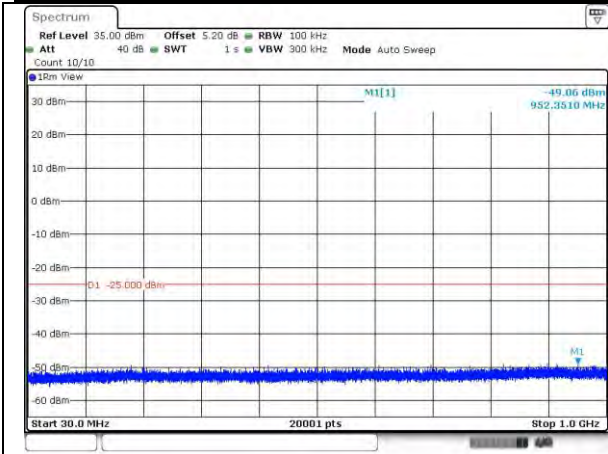
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-100RB#0-100RB#0-30~1000MHz



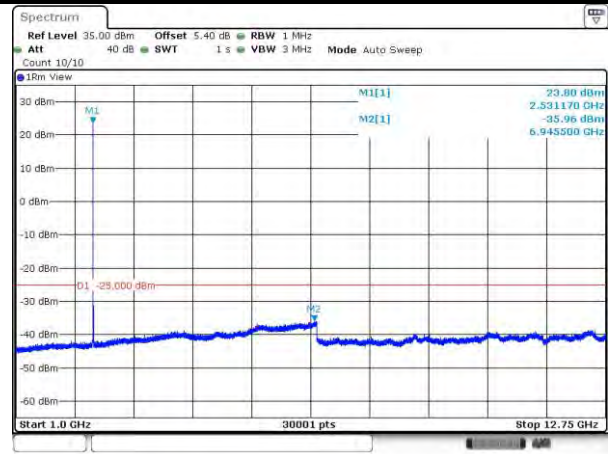
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-100RB#0-100RB#0-1000~12750MHz



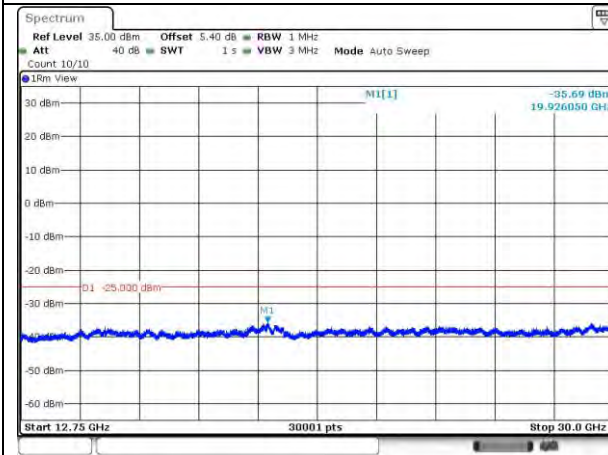
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-100RB#0-100RB#0-12750~30000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-1RB#0-ORB#0-30~1000MHz

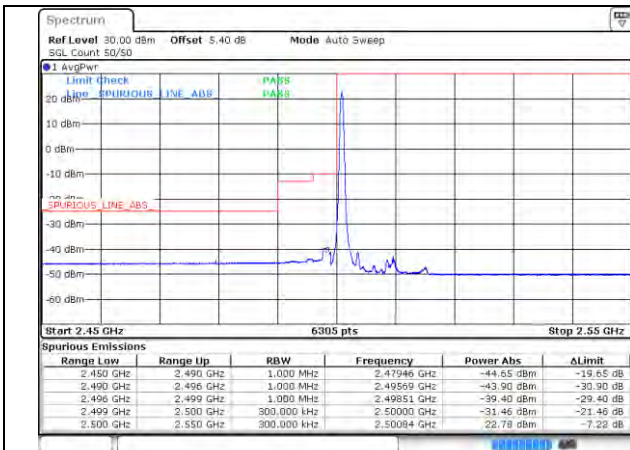


7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-1RB#0-ORB#0-1000~12750MHz

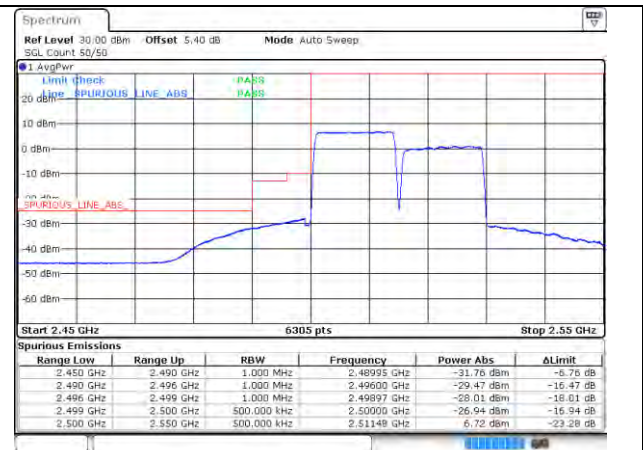


7-7-20MHz-20MHz-QPSK-QPSK-21152-21350
-1RB#0-ORB#0-12750~30000MHz

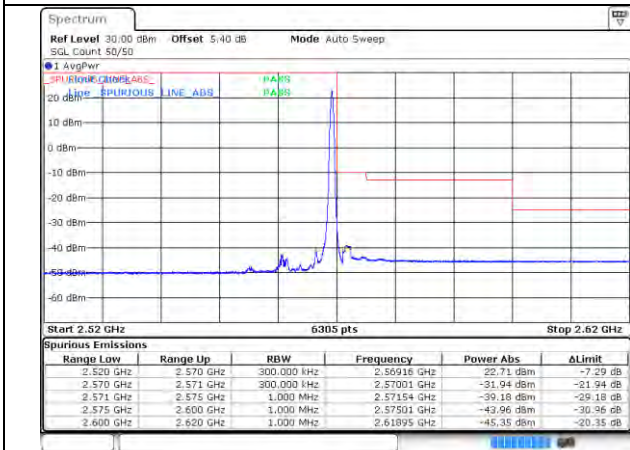
5 Band Edges Compliance



CA_7C_75RB+75RB_QPSK_20825+20975_1RB#0
+0RB#0



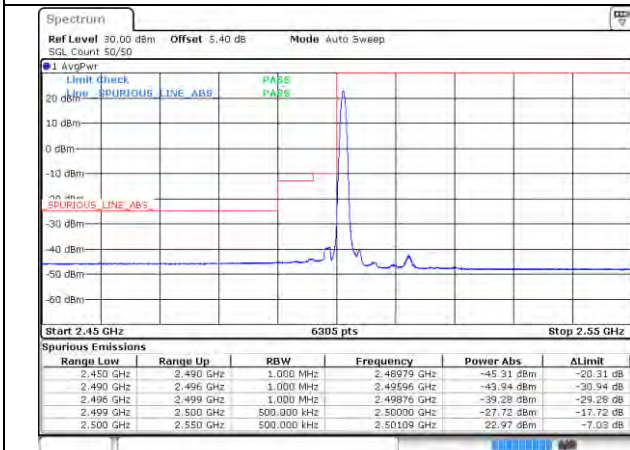
CA_7C_75RB+75RB_QPSK_20825+20975_75RB#0
+75RB#0



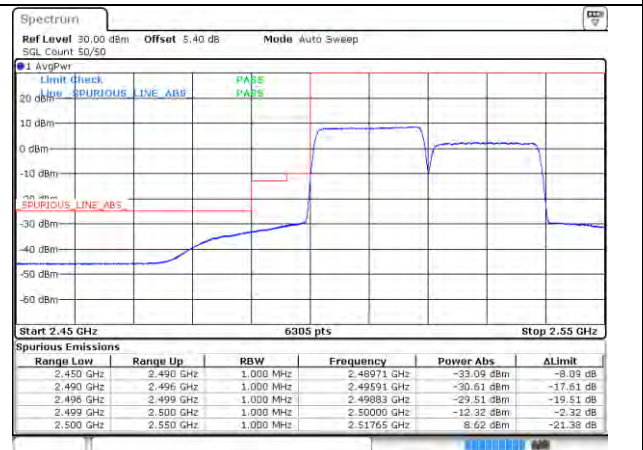
CA_7C_75RB+75RB_QPSK_21225+21375_0RB#0
+1RB#74



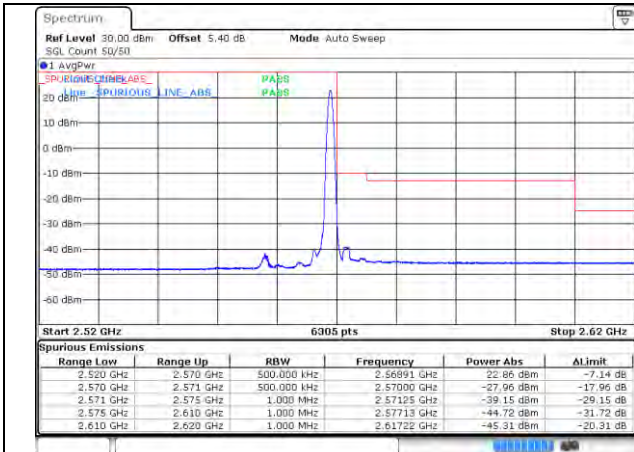
CA_7C_75RB+75RB_QPSK_21225+21375_75RB#0
+75RB#0



CA_7C_100RB+100RB_QPSK_20850+21048_1RB#0
+0RB#0



CA_7C_100RB+100RB_QPSK_20850+21048_100RB#0
+100RB#0



CA_7C_100RB+100RB_QPSK_21152+21350_0RB
#0+1RB#99



CA_7C_100RB+100RB_QPSK_21152+21350_100RB
#0+100RB#0

6 Frequency Stability

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
CA-7C	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	VH	NT	28.30	0.011275	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	VL	NT	27.30	0.010876	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	VN	NT	27.00	0.010757	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	24.10	0.009544	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	22.50	0.008911	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	23.70	0.009386	±2.5
	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	VH	NT	24.90	0.009802	±2.5
	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	VL	NT	26.00	0.010235	±2.5
	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	VN	NT	25.10	0.009881	±2.5

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
CA-7C	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-30	26.70	0.010637	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-20	26.90	0.010717	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-10	50.80	0.020239	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	0	28.10	0.011195	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	10	29.60	0.011793	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	20	22.20	0.008845	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	30	21.60	0.008606	±2.5
	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	NV	-50	27.00	0.010757	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	26.90	0.010653	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-50	22.50	0.008911	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	24.80	0.009821	±2.5
	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	28.80	0.011405	±2.5
	20MHz-	QPSK-QPSK	21001-	100RB#0-1	NV	10	24.70	0.009782	±2.5

20MHz		21199	00RB#0						
20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-1 00RB#0	NV	20	21.20	0.008396	±2.5	
20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-1 00RB#0	NV	30	30.70	0.012158	±2.5	
20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-1 00RB#0	NV	-20	21.70	0.008594	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	30	25.90	0.010196	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	-50	25.50	0.010039	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	-30	24.90	0.009802	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	-20	24.70	0.009724	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	-10	26.00	0.010235	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	0	27.80	0.010944	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	10	25.90	0.010196	±2.5	
20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-1 00RB#0	NV	20	29.80	0.011731	±2.5	

7 Effective Radiated Power and Effective Isotropic Radiated Power

Bandwidth	Modulation	Channel	RB Configuration	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
10MHz-20MHz	QPSK-QPSK	20805-20949	12RB#0-0RB#0	22.86	20.86	0.122
			1RB#0-0RB#0	22.90	20.9	0.123
		21006-21150	12RB#0-0RB#0	22.83	20.83	0.121
			1RB#0-0RB#0	22.87	20.87	0.122
		21206-21350	12RB#0-0RB#0	22.82	20.82	0.121
			1RB#0-0RB#0	22.85	20.85	0.122
	16QAM-16QAM	20805-20949	12RB#0-0RB#0	21.94	19.94	0.099
			1RB#0-0RB#0	22.39	20.39	0.109
		21006-21150	12RB#0-0RB#0	21.94	19.94	0.099
			1RB#0-0RB#0	22.62	20.62	0.115
		21206-21350	12RB#0-0RB#0	21.94	19.94	0.099
			1RB#0-0RB#0	22.33	20.33	0.108
	64QAM-64QAM	20805-20949	12RB#0-0RB#0	20.97	18.97	0.079
			1RB#0-0RB#0	21.07	19.07	0.081
		21006-21150	12RB#0-0RB#0	20.92	18.92	0.078
			1RB#0-0RB#0	21.09	19.09	0.081
		21206-21350	12RB#0-0RB#0	20.87	18.87	0.077
			1RB#0-0RB#0	21.03	19.03	0.080
	256QAM-256QAM	20805-20949	12RB#0-0RB#0	18.04	16.04	0.040
			1RB#0-0RB#0	18.34	16.34	0.043
		21006-21150	12RB#0-0RB#0	17.96	15.96	0.039
			1RB#0-0RB#0	18.25	16.25	0.042
		21206-21350	12RB#0-0RB#0	17.97	15.97	0.040
			1RB#0-0RB#0	18.22	16.22	0.042
15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	22.85	20.85	0.122
		21051-21171	1RB#0-0RB#0	22.76	20.76	0.119
		21277-21397	1RB#0-0RB#0	22.78	20.78	0.120
	16QAM-16QAM	20825-20945	1RB#0-0RB#0	22.30	20.3	0.107
		21051-21171	1RB#0-0RB#0	22.31	20.31	0.107
		21277-21397	1RB#0-0RB#0	22.48	20.48	0.112
	64QAM-64QAM	20825-20945	1RB#0-0RB#0	22.12	20.12	0.103
		21051-21171	1RB#0-0RB#0	22.07	20.07	0.102
		21277-21397	1RB#0-0RB#0	21.95	19.95	0.099

	256QAM-256QAM	20825-20945	1RB#0-0RB#0	18.37	16.37	0.043
		21051-21171	1RB#0-0RB#0	18.39	16.39	0.044
		21277-21397	1RB#0-0RB#0	18.25	16.25	0.042
15MHz-15MHz	QPSK-QPSK	20825-20975	16RB#0-0RB#0	22.83	20.83	0.121
			1RB#0-0RB#0	22.77	20.77	0.119
		21025-21175	16RB#0-0RB#0	22.86	20.86	0.122
			1RB#0-0RB#0	22.78	20.78	0.120
		21225-21375	16RB#0-0RB#0	22.77	20.77	0.119
			1RB#0-0RB#0	22.79	20.79	0.120
	16QAM-16QAM	20825-20975	16RB#0-0RB#0	21.97	19.97	0.099
			1RB#0-0RB#0	22.26	20.26	0.106
		21025-21175	16RB#0-0RB#0	21.94	19.94	0.099
			1RB#0-0RB#0	22.31	20.31	0.107
		21225-21375	16RB#0-0RB#0	21.96	19.96	0.099
			1RB#0-0RB#0	22.39	20.39	0.109
	64QAM-64QAM	20825-20975	16RB#0-0RB#0	20.96	18.96	0.079
			1RB#0-0RB#0	21.10	19.1	0.081
		21025-21175	16RB#0-0RB#0	20.98	18.98	0.079
			1RB#0-0RB#0	21.14	19.14	0.082
		21225-21375	16RB#0-0RB#0	20.98	18.98	0.079
			1RB#0-0RB#0	21.09	19.09	0.081
	256QAM-256QAM	20825-20975	16RB#0-0RB#0	18.02	16.02	0.040
			1RB#0-0RB#0	18.21	16.21	0.042
		21025-21175	16RB#0-0RB#0	18.02	16.02	0.040
			1RB#0-0RB#0	18.39	16.39	0.044
		21225-21375	16RB#0-0RB#0	18.07	16.07	0.040
			1RB#0-0RB#0	18.19	16.19	0.042
15MHz-20MHz	QPSK-QPSK	20828-20999	16RB#0-0RB#0	22.81	20.81	0.121
			1RB#0-0RB#0	20.22	18.22	0.066
		21003-21174	16RB#0-0RB#0	22.85	20.85	0.122
			1RB#0-0RB#0	22.87	20.87	0.122
		21179-21350	16RB#0-0RB#0	22.81	20.81	0.121
			1RB#0-0RB#0	22.82	20.82	0.121
	16QAM-16QAM	20828-20999	16RB#0-0RB#0	22.00	20	0.100
			1RB#0-0RB#0	22.36	20.36	0.109
		21003-21174	16RB#0-0RB#0	22.04	20.04	0.101

20MHz-10MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	22.35	20.35	0.108	
			16RB#0-0RB#0	21.95	19.95	0.099	
			1RB#0-0RB#0	22.25	20.25	0.106	
		20828-20999	16RB#0-0RB#0	20.93	18.93	0.078	
			1RB#0-0RB#0	21.08	19.08	0.081	
		21003-21174	16RB#0-0RB#0	20.99	18.99	0.079	
	1RB#0-0RB#0		21.23	19.23	0.084		
	21179-21350	16RB#0-0RB#0	20.93	18.93	0.078		
		1RB#0-0RB#0	21.19	19.19	0.083		
	256QAM-256QAM	20828-20999	16RB#0-0RB#0	17.94	15.94	0.039	
			1RB#0-0RB#0	18.30	16.3	0.043	
		21003-21174	16RB#0-0RB#0	18.04	16.04	0.040	
			1RB#0-0RB#0	18.23	16.23	0.042	
		21179-21350	16RB#0-0RB#0	17.97	15.97	0.040	
			1RB#0-0RB#0	18.13	16.13	0.041	
	QPSK-QPSK	20850-20994	12RB#0-0RB#0	22.87	20.87	0.122	
			1RB#0-0RB#0	22.85	20.85	0.122	
			21051-21195	12RB#0-0RB#0	22.83	20.83	0.121
				1RB#0-0RB#0	22.87	20.87	0.122
			21251-21395	12RB#0-0RB#0	22.82	20.82	0.121
1RB#0-0RB#0				22.79	20.79	0.120	
16QAM-16QAM		20850-20994	12RB#0-0RB#0	22.06	20.06	0.101	
			1RB#0-0RB#0	22.31	20.31	0.107	
		21051-21195	12RB#0-0RB#0	22.02	20.02	0.100	
			1RB#0-0RB#0	22.48	20.48	0.112	
		21251-21395	12RB#0-0RB#0	22.01	20.01	0.100	
			1RB#0-0RB#0	22.31	20.31	0.107	
64QAM-64QAM		20850-20994	12RB#0-0RB#0	20.90	18.9	0.078	
			1RB#0-0RB#0	20.94	18.94	0.078	
		21051-21195	12RB#0-0RB#0	20.90	18.9	0.078	
			1RB#0-0RB#0	21.14	19.14	0.082	
		21251-21395	12RB#0-0RB#0	20.89	18.89	0.077	
			1RB#0-0RB#0	21.17	19.17	0.083	
256QAM-256QAM	20850-20994	12RB#0-0RB#0	18.13	16.13	0.041		
		1RB#0-0RB#0	18.32	16.32	0.043		
	21051-21195	12RB#0-0RB#0	18.10	16.1	0.041		

20MHz-20MHz		21251-21395	1RB#0-0RB#0	18.36	16.36	0.043	
			12RB#0-0RB#0	18.06	16.06	0.040	
			1RB#0-0RB#0	18.23	16.23	0.042	
	QPSK-QPSK	20850-21048		18RB#0-0RB#0	22.86	20.86	0.122
				1RB#0-0RB#0	22.85	20.85	0.122
		21001-21199		18RB#0-0RB#0	22.83	20.83	0.121
				1RB#0-0RB#0	22.81	20.81	0.121
		21152-21350		18RB#0-0RB#0	22.86	20.86	0.122
				1RB#0-0RB#0	22.83	20.83	0.121
	16QAM-16QAM	20850-21048		18RB#0-0RB#0	21.95	19.95	0.099
				1RB#0-0RB#0	21.91	19.91	0.098
		21001-21199		18RB#0-0RB#0	21.93	19.93	0.098
				1RB#0-0RB#0	21.89	19.89	0.097
		21152-21350		18RB#0-0RB#0	21.91	19.91	0.098
				1RB#0-0RB#0	22.20	20.2	0.105
	64QAM-64QAM	20850-21048		18RB#0-0RB#0	20.94	18.94	0.078
				1RB#0-0RB#0	20.96	18.96	0.079
		21001-21199		18RB#0-0RB#0	20.93	18.93	0.078
				1RB#0-0RB#0	21.03	19.03	0.080
		21152-21350		18RB#0-0RB#0	20.97	18.97	0.079
				1RB#0-0RB#0	21.08	19.08	0.081
256QAM-256QAM	20850-21048		18RB#0-0RB#0	17.94	15.94	0.039	
			1RB#0-0RB#0	17.95	15.95	0.039	
	21001-21199		18RB#0-0RB#0	17.95	15.95	0.039	
			1RB#0-0RB#0	18.29	16.29	0.043	
	21152-21350		18RB#0-0RB#0	17.90	15.9	0.039	
			1RB#0-0RB#0	18.23	16.23	0.042	

Test on the worst case:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	22.69	20.69	0.117
			21006-21150	1RB#0-0RB#0	22.66	20.66	0.116
			21206-21350	1RB#0-0RB#0	22.74	20.74	0.119