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Appendix B.5

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.40	18.45	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.42	18.47	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.52	18.57	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.48	17.53	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.63	18.68	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.50	18.55	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.43	18.48	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.64	17.69	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.55	18.60	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.61	18.66	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.62	18.67	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.66	17.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.62	17.67	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.66	17.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.58	17.63	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.66	16.71	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.60	17.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.42	17.47	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.61	17.66	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.46	16.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.71	17.76	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.44	17.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.64	17.69	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.51	16.56	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.53	16.58	38.45	PASS



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Band5	1.4MHz	64QAM	20407	1RB#2	22.50	16.55	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.51	16.56	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	21.62	15.67	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.50	16.55	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.60	16.65	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.57	16.62	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.45	15.50	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.55	16.60	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.67	16.72	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.59	16.64	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.50	15.55	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	19.48	13.53	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	19.43	13.48	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	19.45	13.50	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	19.62	13.67	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	19.54	13.59	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.54	13.59	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.52	13.57	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	19.66	13.71	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	19.59	13.64	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.57	13.62	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.61	13.66	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	19.43	13.48	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.50	18.55	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.46	18.51	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.43	18.48	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.52	17.57	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.48	18.53	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.46	18.51	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.62	18.67	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.67	17.72	38.45	PASS



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Band5	3MHz	QPSK	20635	1RB#0	24.47	18.52	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.55	18.60	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.58	18.63	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.62	17.67	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.65	17.70	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.59	17.64	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.67	17.72	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.74	16.79	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.43	17.48	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.64	17.69	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.62	17.67	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.54	16.59	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.70	17.75	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.71	17.76	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.64	17.69	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.55	16.60	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.51	16.56	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.56	16.61	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.51	16.56	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.48	15.53	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.55	16.60	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.64	16.69	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.59	16.64	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.55	15.60	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.60	16.65	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.69	16.74	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.57	16.62	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.57	15.62	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.43	13.48	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.50	13.55	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.51	13.56	38.45	PASS



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Band5	3MHz	256QAM	20415	15RB#0	19.43	13.48	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.53	13.58	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.52	13.57	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	19.58	13.63	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	19.50	13.55	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	19.52	13.57	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.57	13.62	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	19.62	13.67	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	19.52	13.57	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.54	18.59	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.61	18.66	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.59	18.64	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.59	17.64	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.76	18.81	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.60	18.65	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.60	18.65	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.61	17.66	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.43	18.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.66	18.71	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.51	18.56	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.68	17.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.64	17.69	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.42	17.47	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.43	17.48	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.47	16.52	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.51	17.56	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.44	17.49	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.65	17.70	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.50	16.55	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.72	17.77	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.41	17.46	38.45	PASS



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Band5	5MHz	16QAM	20625	25RB#0	22.52	16.57	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.50	16.55	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.59	16.64	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.55	16.60	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.41	15.46	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.67	16.72	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.64	16.69	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.64	16.69	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.50	15.55	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.59	16.64	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.69	16.74	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.65	16.70	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.52	15.57	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.46	13.51	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	19.45	13.50	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.53	13.58	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	19.64	13.69	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.65	13.70	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.63	13.68	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.52	13.57	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	19.44	13.49	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.60	13.65	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.62	13.67	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.56	13.61	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	19.50	13.55	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.51	18.56	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.49	18.54	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.48	18.53	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.53	17.58	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.58	18.63	38.45	PASS



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Band5	10MHz	QPSK	20525	1RB#24	24.57	18.62	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.57	18.62	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.70	17.75	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.75	18.80	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.63	18.68	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.56	18.61	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.64	17.69	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.64	17.69	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.65	17.70	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.60	17.65	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.44	16.49	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.42	17.47	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.48	17.53	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.76	17.81	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.48	16.53	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.42	17.47	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.47	17.52	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.48	17.53	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.47	16.52	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.63	16.68	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.58	16.63	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.57	16.62	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.43	15.48	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.66	16.71	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.57	16.62	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.59	16.64	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.50	15.55	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.68	16.73	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.58	16.63	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.65	16.70	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.49	15.54	38.45	PASS



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Band5	10MHz	256QAM	20450	1RB#0	19.58	13.63	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.56	13.61	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	19.47	13.52	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	19.43	13.48	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	19.55	13.60	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.58	13.63	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	19.53	13.58	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	19.40	13.45	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.47	13.52	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	19.56	13.61	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.58	13.63	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	19.50	13.55	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.90	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.08	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.98	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.68	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.90	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.60	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.24	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.08	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.52	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.50	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.44	13	PASS



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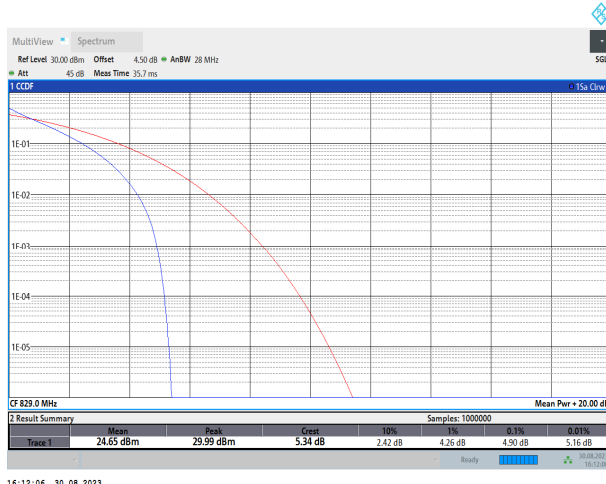
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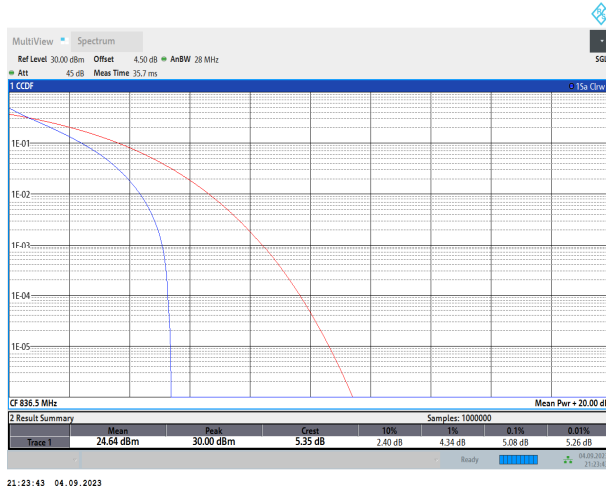
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Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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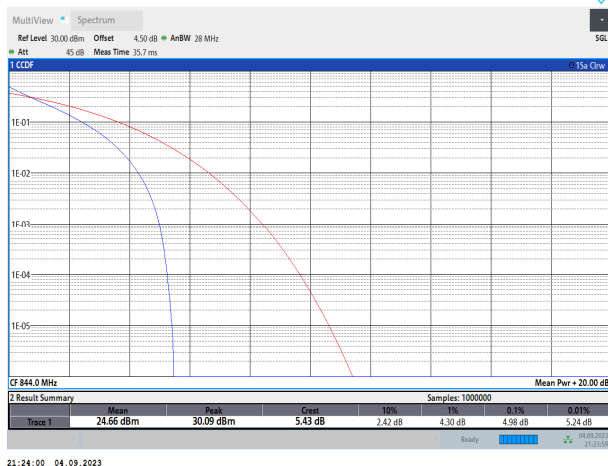
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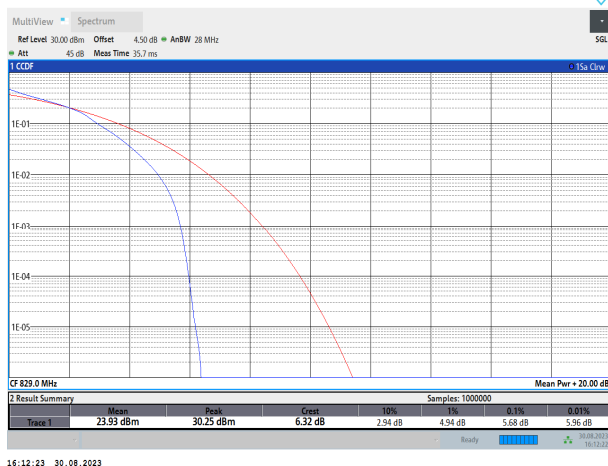
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Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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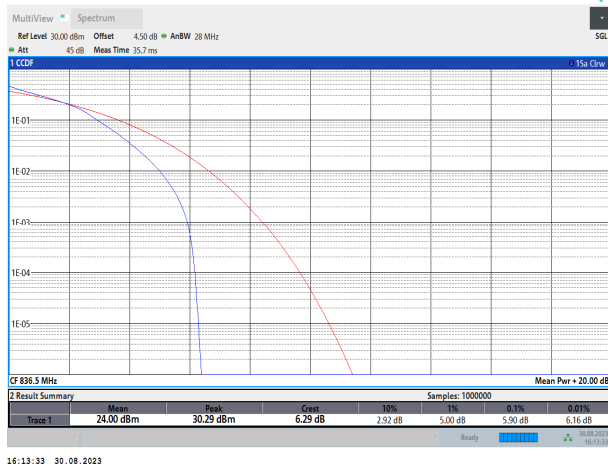
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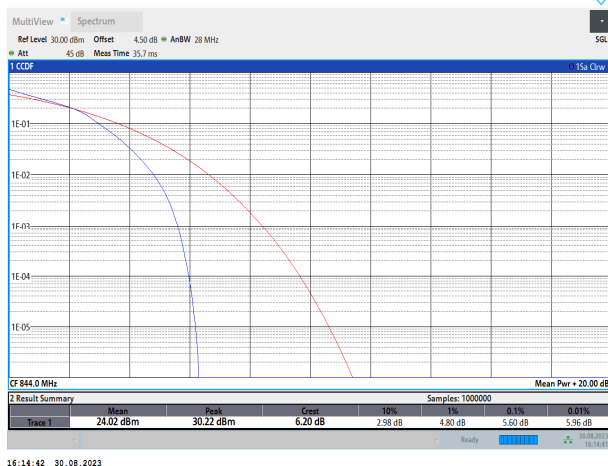
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Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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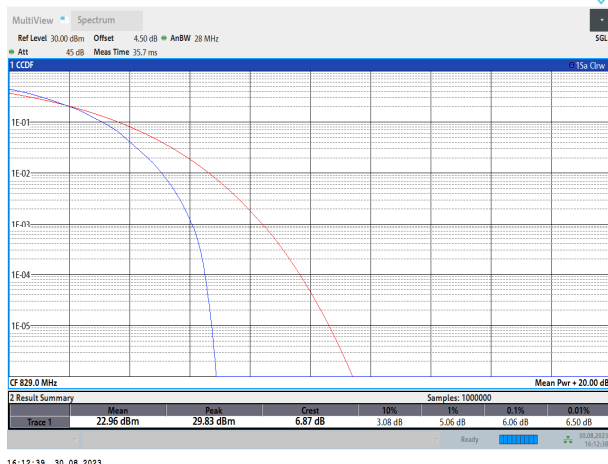
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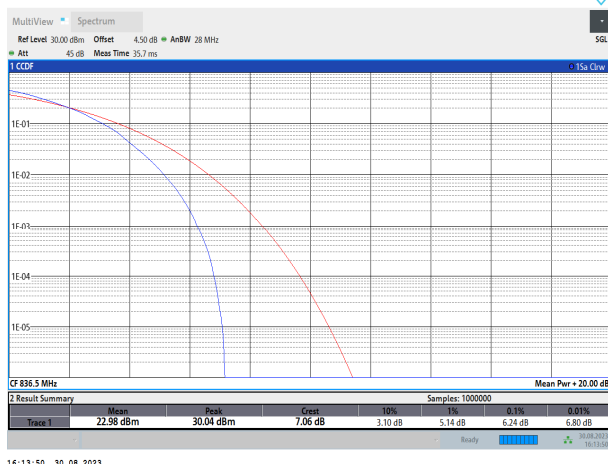
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Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20525-50RB#0



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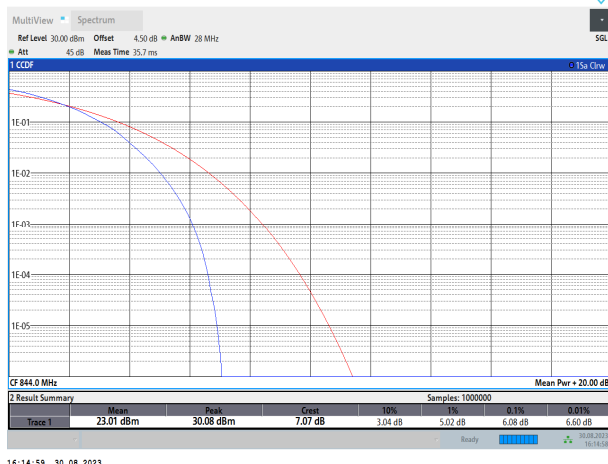
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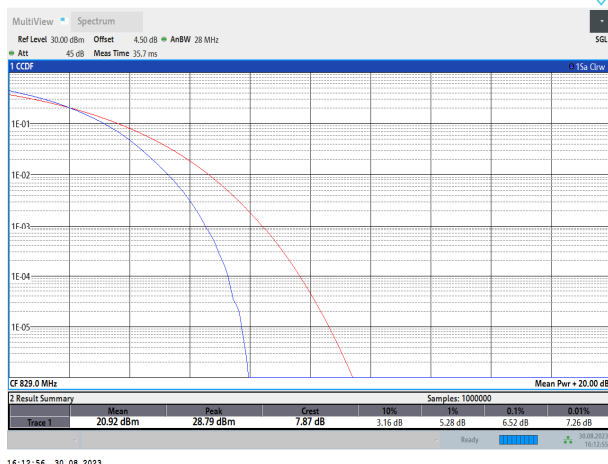
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Band5-10MHz-64QAM-20600-50RB#0



Band5-10MHz-256QAM-20450-50RB#0



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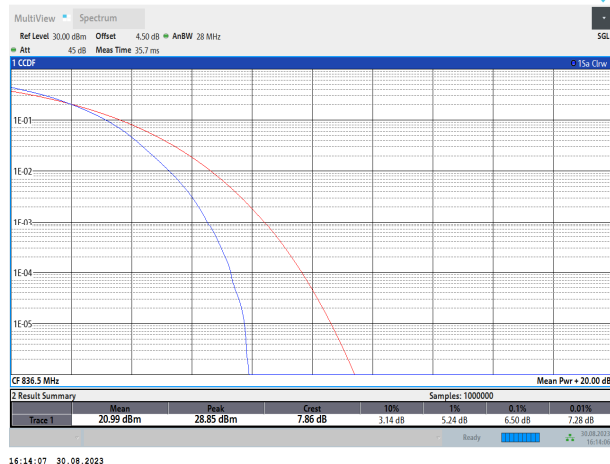
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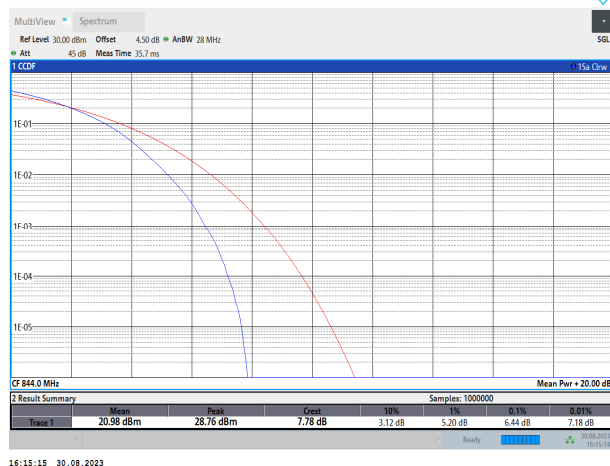
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Band5-10MHz-256QAM-20525-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20525	6RB#0	1.098	1.28	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.096	1.31	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.087	1.29	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.695	2.95	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.693	2.93	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.692	2.92	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.691	2.95	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.462	4.86	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.466	4.86	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.472	4.87	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.468	4.83	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.924	9.56	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.92	9.68	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.935	9.70	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.929	9.54	PASS



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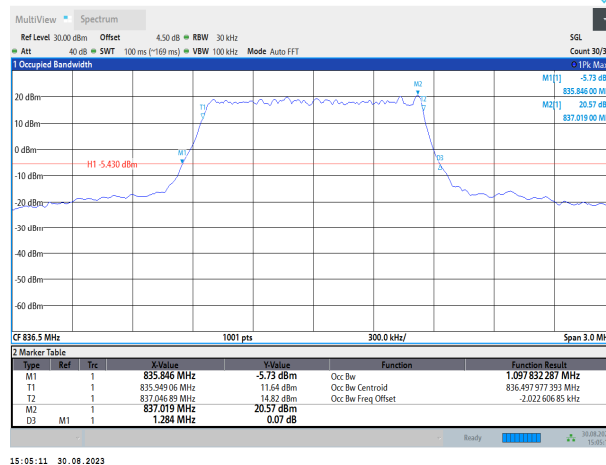
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Rev.: 01

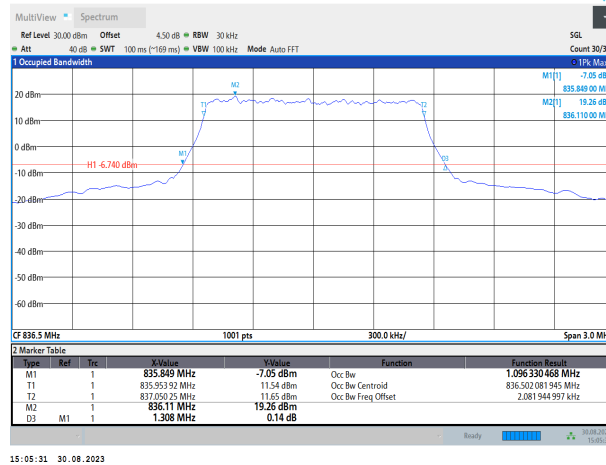
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Test Graphs

Band5-1.4MHz-QPSK-20525-6RB#0



Band5-1.4MHz-16QAM-20525-6RB#0

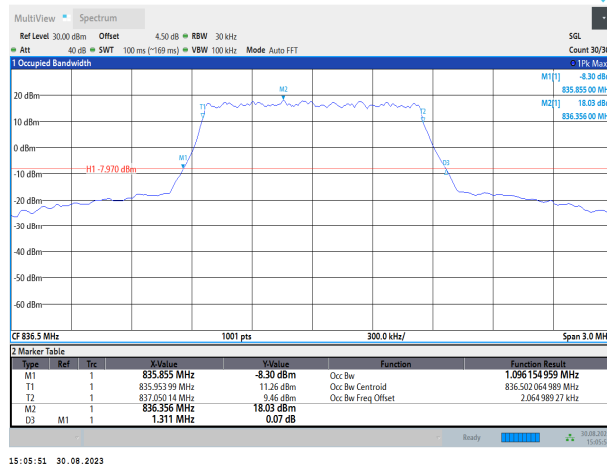


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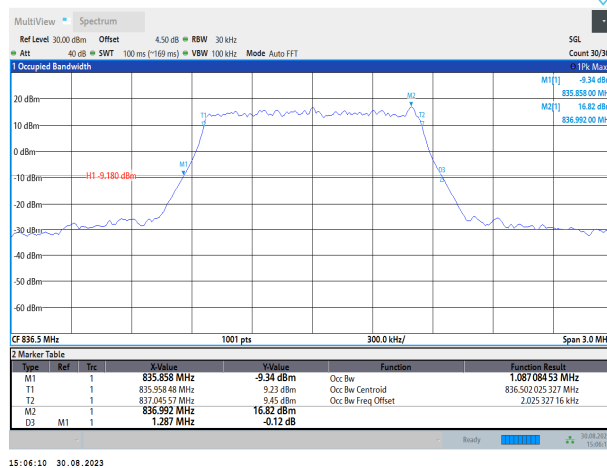
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Band5-1.4MHz-64QAM-20525-6RB#0



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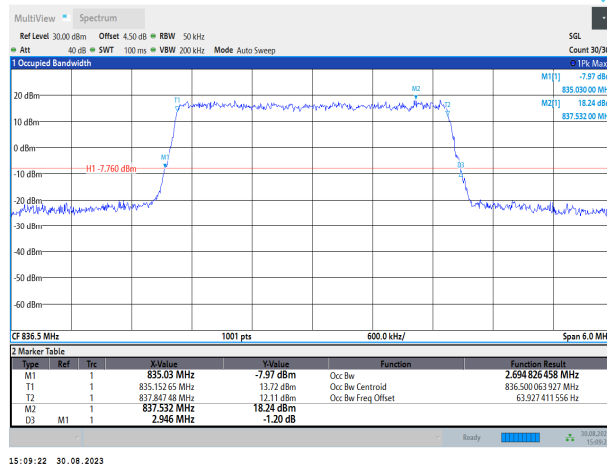


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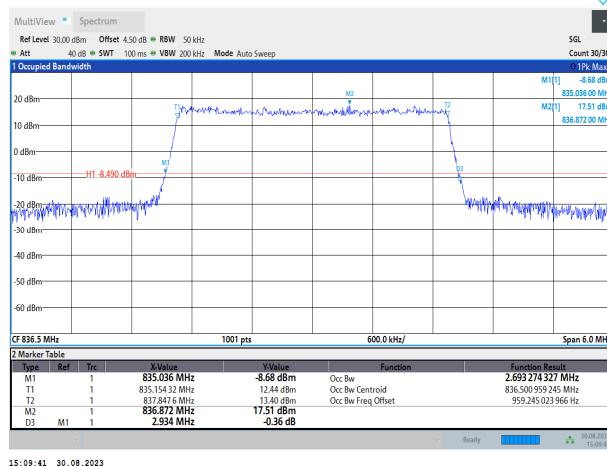
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Band5-3MHz-QPSK-20525-15RB#0



Band5-3MHz-16QAM-20525-15RB#0

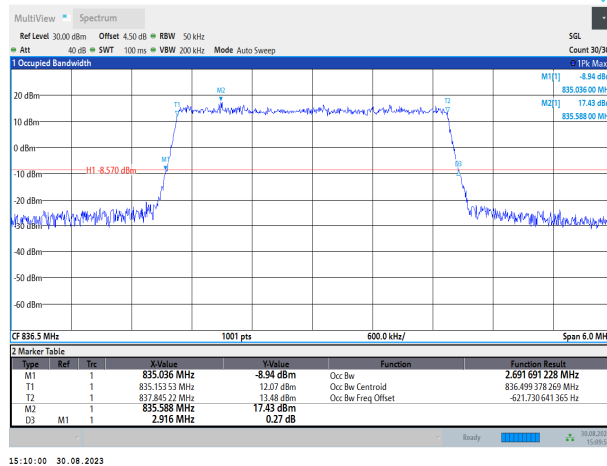


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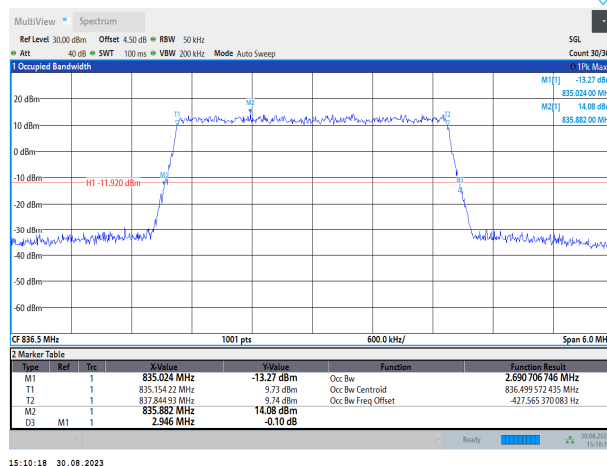
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Band5-3MHz-64QAM-20525-15RB#0



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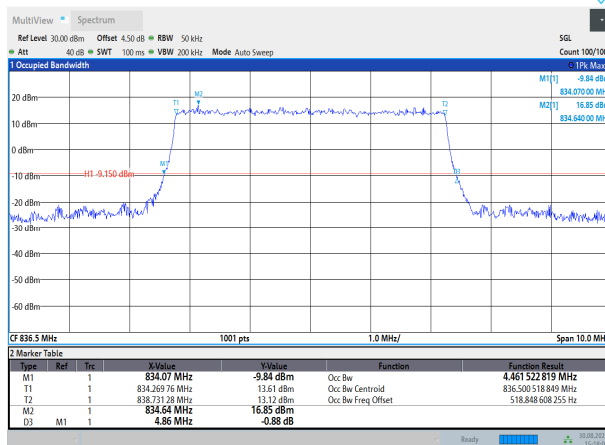


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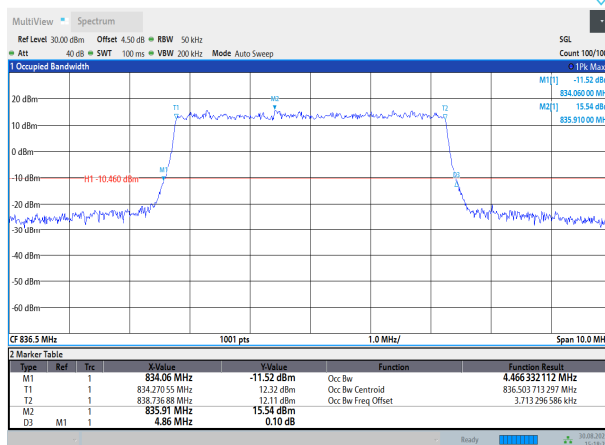
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Band5-5MHz-QPSK-20525-25RB#0



15:18:04 30.08.2023

Band5-5MHz-16QAM-20525-25RB#0



15:18:29 30.08.2023

MultiView Spectrum

Ref Level 30.00 dBm Offset 4.50 dB RBW 50 kHz Count 100/100

Att 40 dB SWT 100 ms VBW 200 kHz Mode Auto Sweep

1 Occupied Bandwidth TPK Max

20 dBm

10 dBm

0 dBm

-10 dBm M1 -10.530 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

CF 836.5 MHz

1001 pts

1.0 MHz/

Span 10.0 MHz

Marker Table				Function		Function Result
Wave	Ref	Freq	Amplitude	Occ Bw	Occ Bw Centroid	
M1	1	834.040 MHz	-10.71 dBm			4.472 281 012 MHz
T1	1	834.259 92 MHz	11.60 dBm			836.496 060 732 MHz
T2	1	836.732 13 MHz	11.28 dBm			-3.939 267 525 kHz
M2	1	835.88 MHz	15.47 dBm			
D3	M1	4.87 MHz	-0.04 dB			

Ready

30.00 MHz 100 kHz

Ref Level 30.00 dBm Offset 4.50 dB BW 50 kHz
 Att 40 dB SWT 100 ms VWV 200 kHz Mode Auto Sweep

Occupied Bandwidth

20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm

H1 -12.630 dBm

T1 T2

CF 836.5 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz

2 Marker Table		Function Result	
Marker	Ref	M1/M2	Function
M1	1	834.08 MHz	-14.44 dBm
T1	1	834.265 51 MHz	9.17 dBm
M2	1	838.725 12 MHz	9.87 dBm
M3	1	837.43 MHz	13.37 dBm
D3	M1	4.83 MHz	1.67 dB



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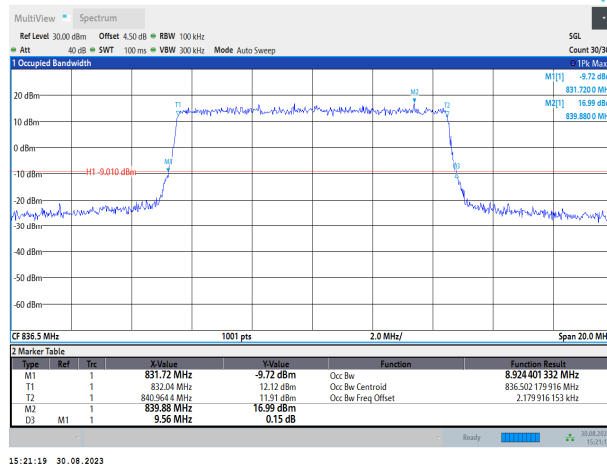
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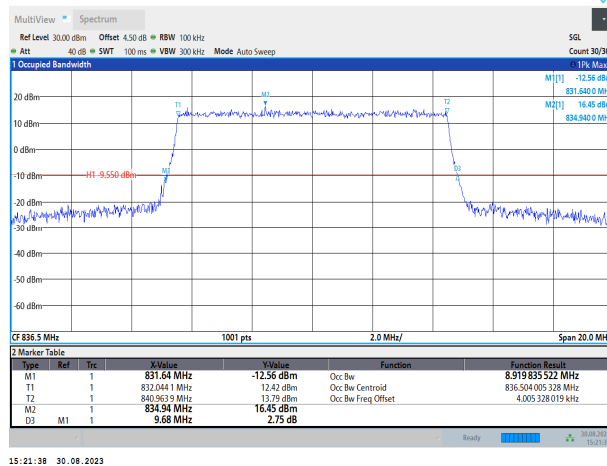
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Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0

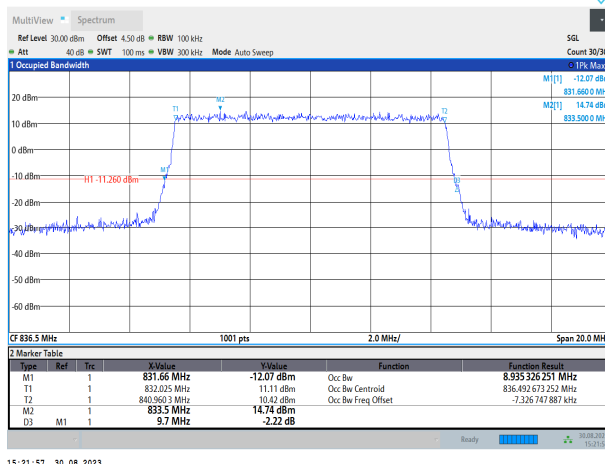


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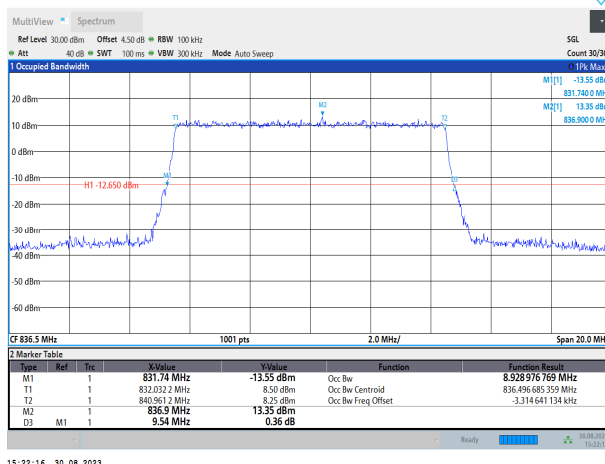
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Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-256QAM-20525-50RB#0



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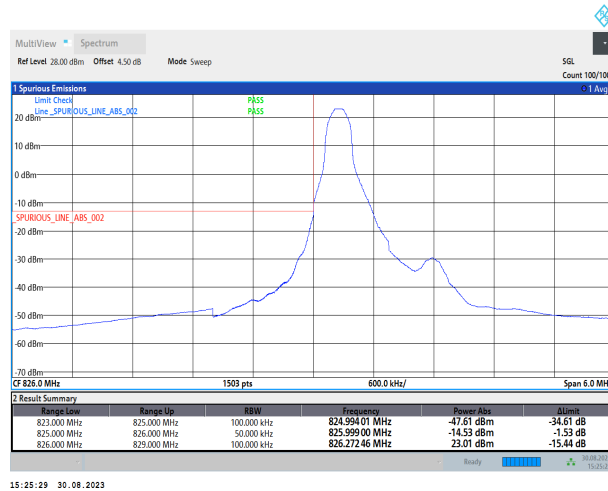
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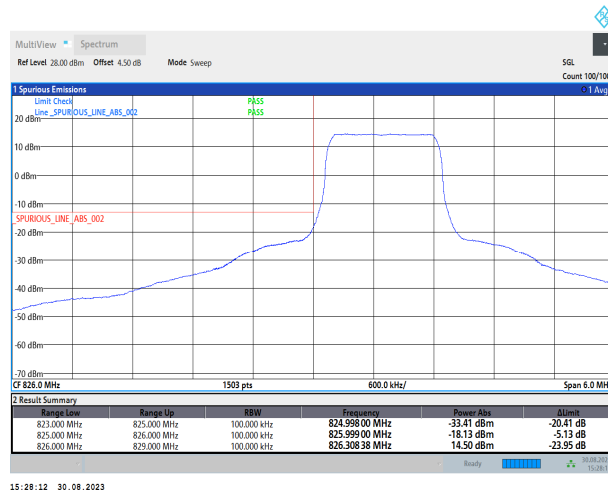
Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



Band5-1.4MHz-QPSK-20427-6RB#0



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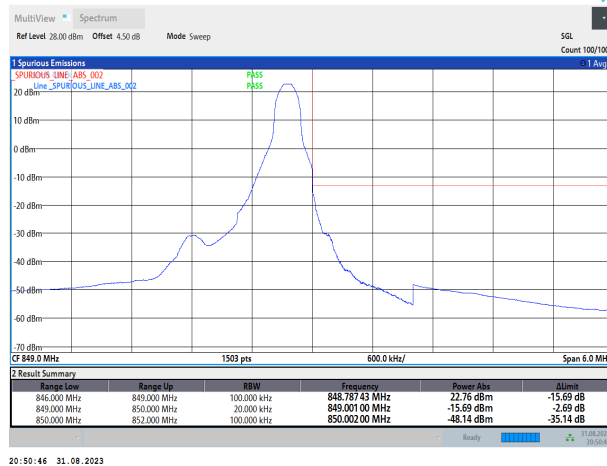
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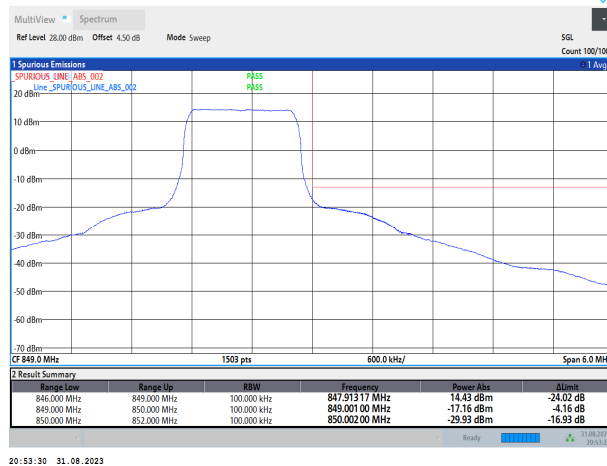
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Band5-1.4MHz-QPSK-20643-1RB#5



Band5-1.4MHz-QPSK-20643-6RB#0



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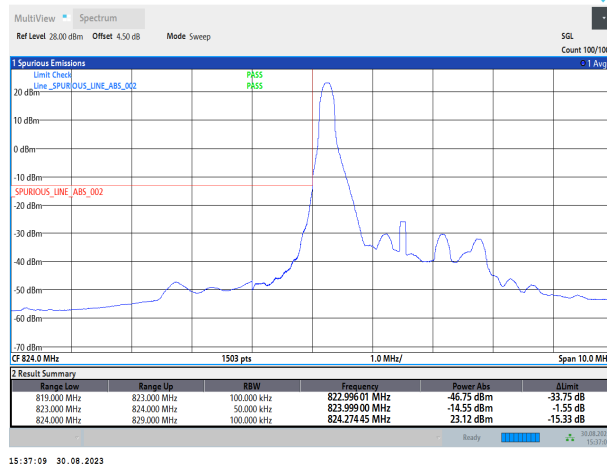
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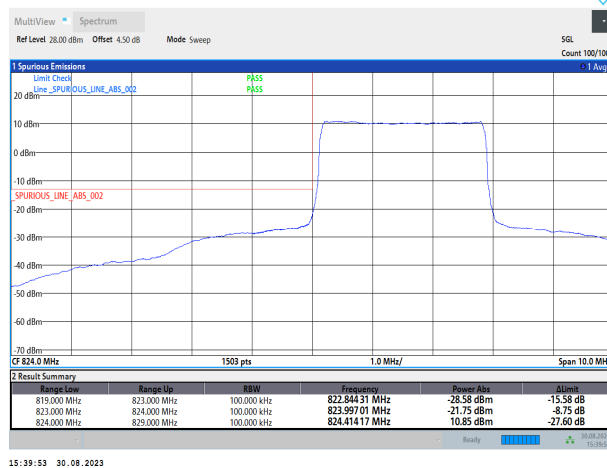
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Band5-3MHz-QPSK-20415-1RB#0



Band5-3MHz-QPSK-20415-15RB#0



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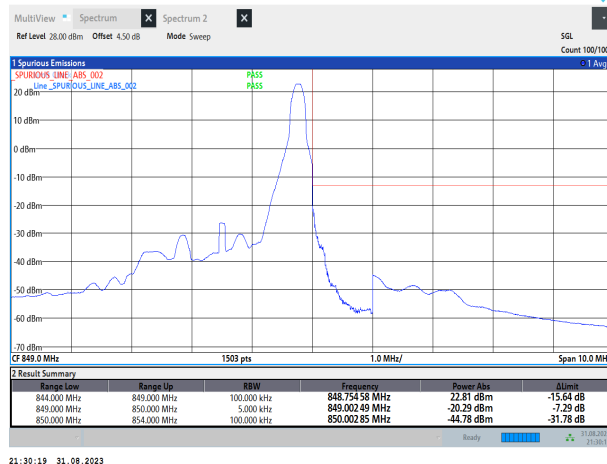
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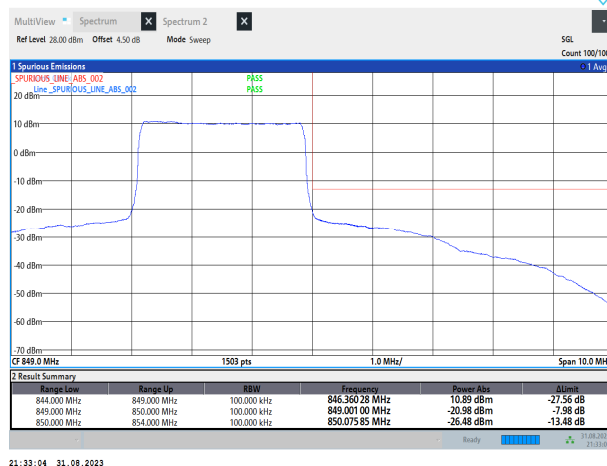
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Band5-3MHz-QPSK-20635-15RB#0



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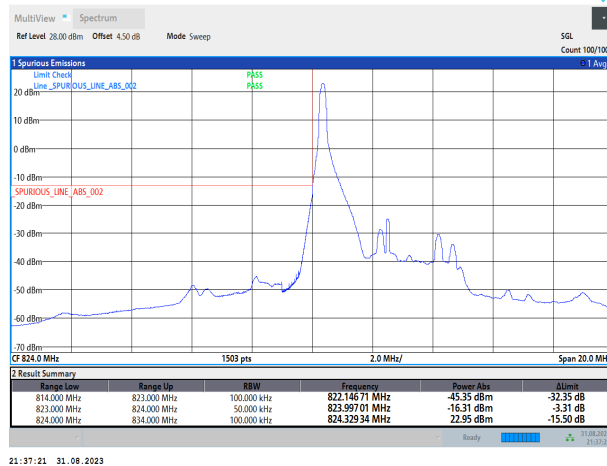
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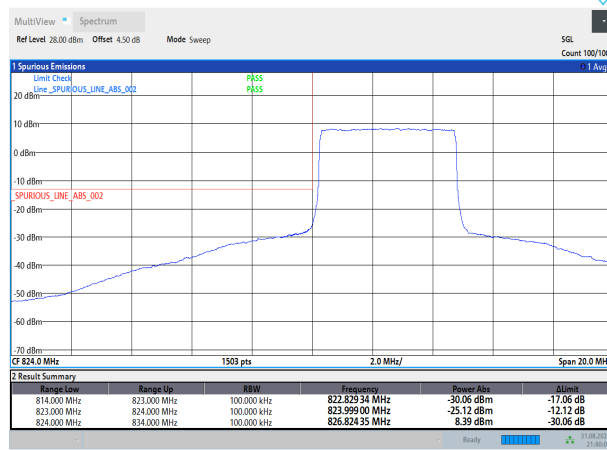
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Band5-5MHz-QPSK-20425-1RB#0



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Band5-5MHz-QPSK-20425-25RB#0



21:40:04 31.08.2023



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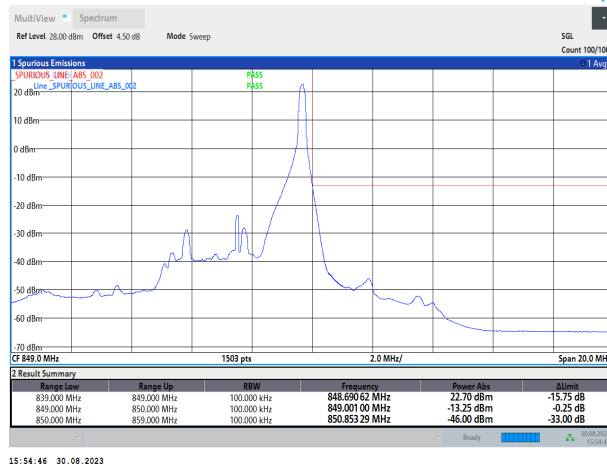
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Band5-5MHz-QPSK-20625-1RB#24



Band5-5MHz-QPSK-20625-25RB#0



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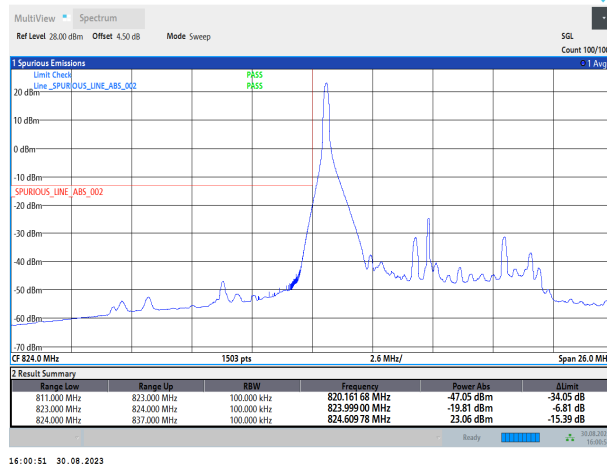
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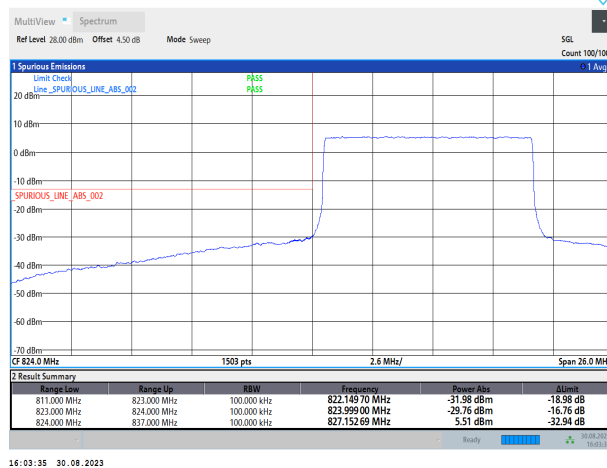
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Band5-10MHz-QPSK-20450-50RB#0



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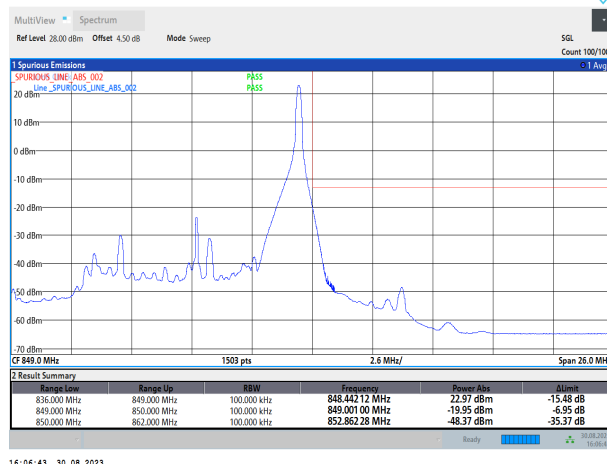
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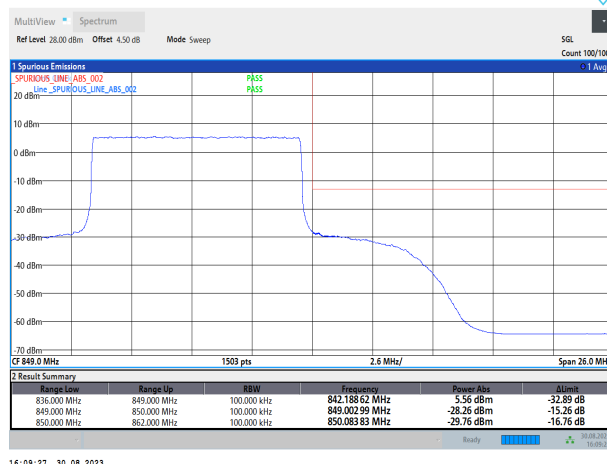
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Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0



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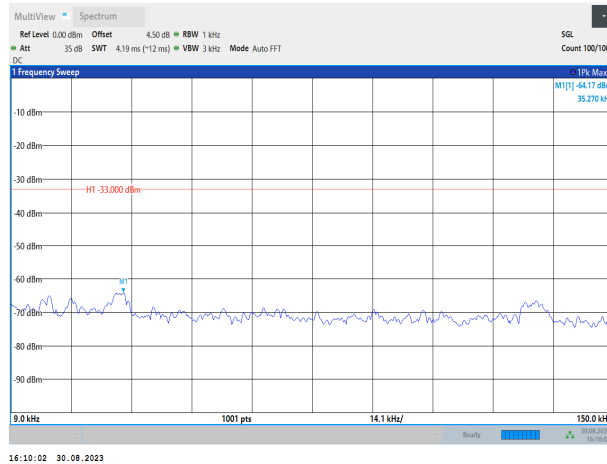
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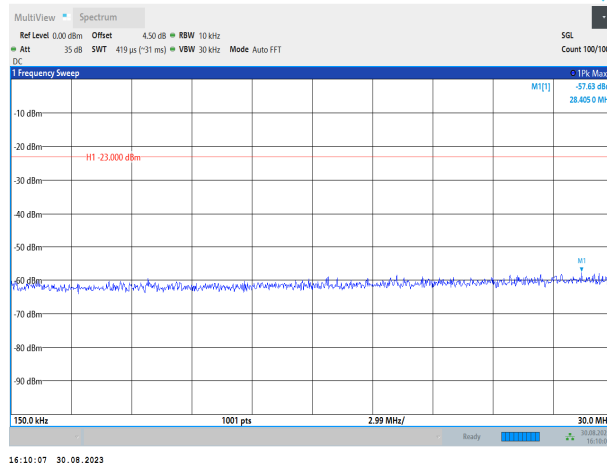
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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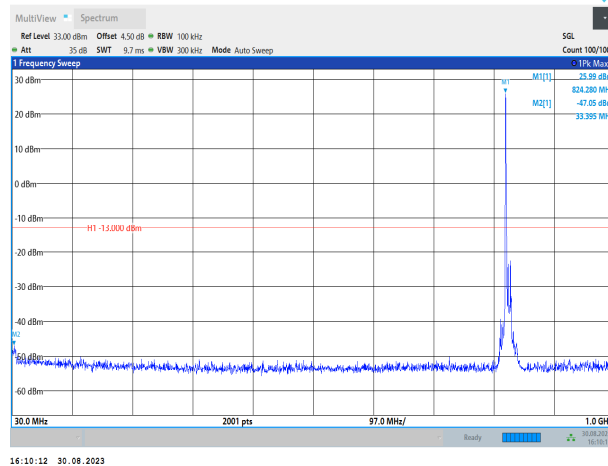
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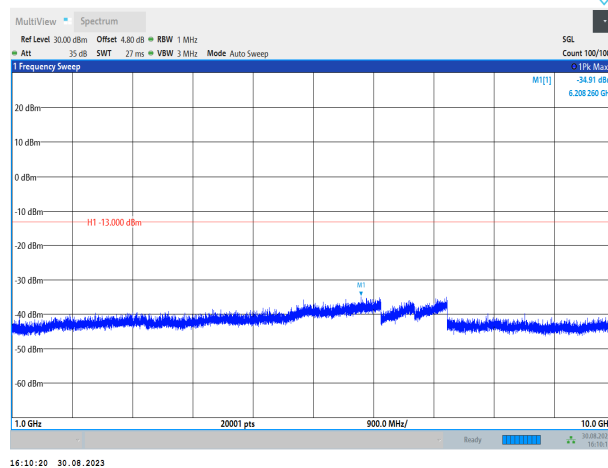
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz

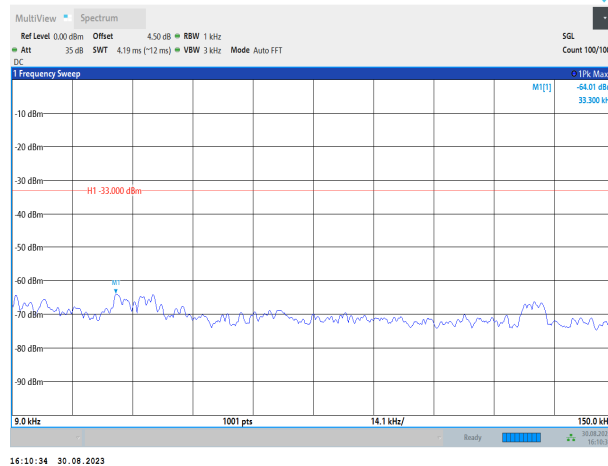


Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz

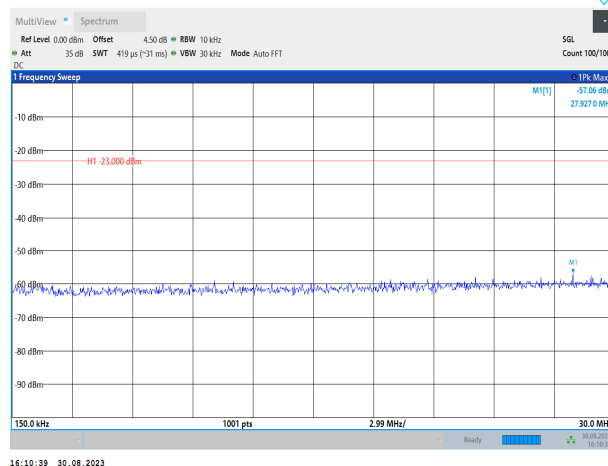


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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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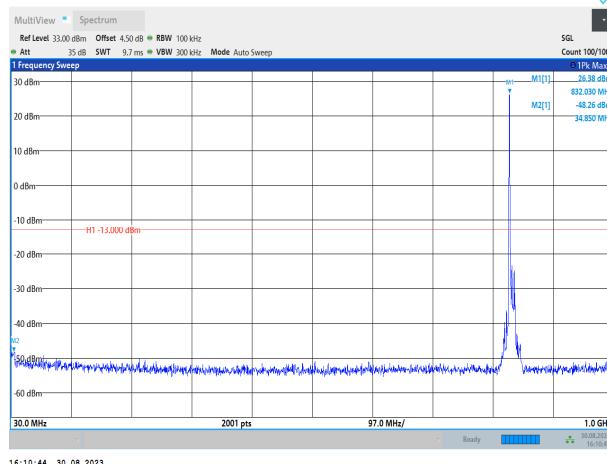
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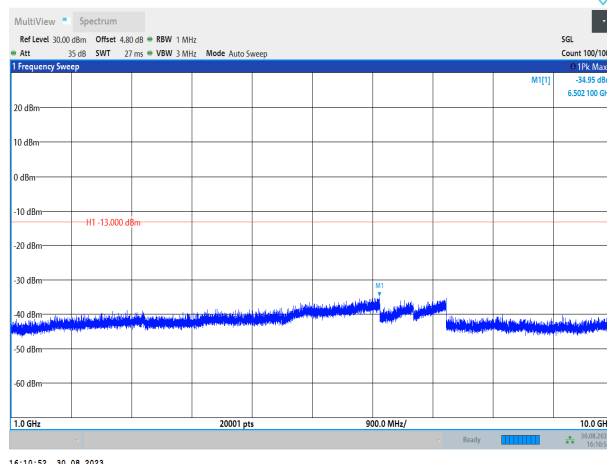
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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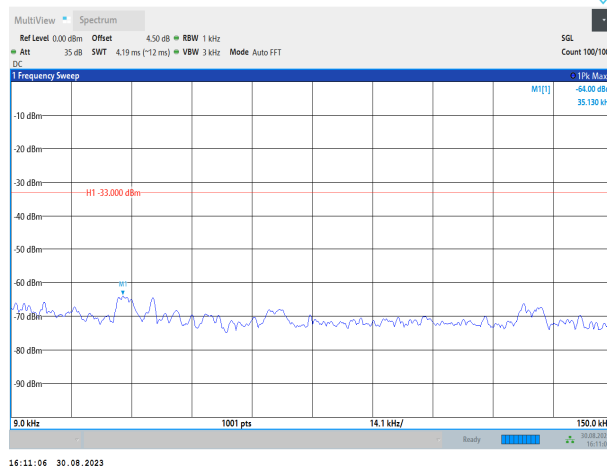
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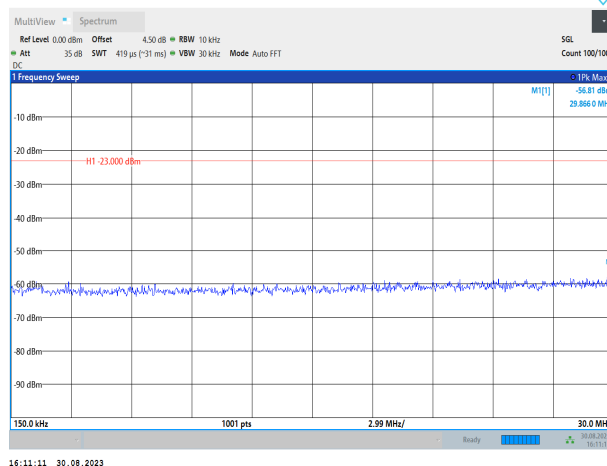
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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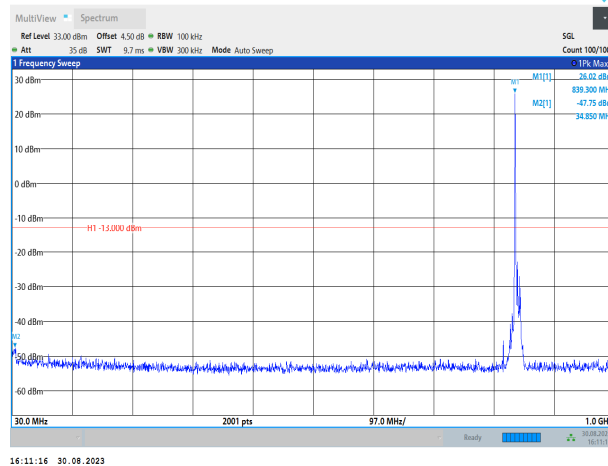
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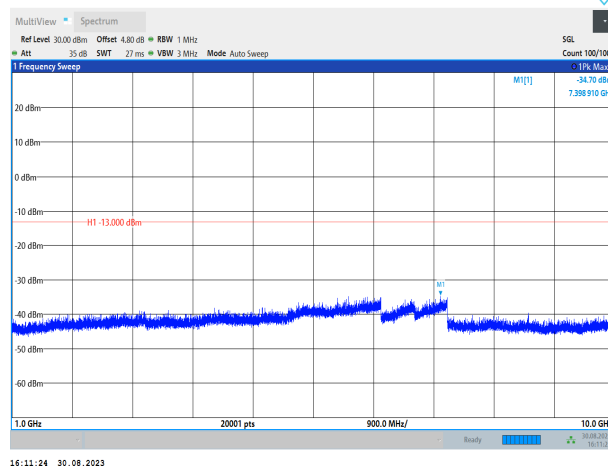
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation**Test Band = LTE Band5_10MHz_TM1****Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	44.15	-48.22	25.27	-74.06	-13.00	61.06	Horizontal
2	2473.7700	43.44	-47.32	27.23	-71.91	-13.00	58.91	Horizontal
3	3298.3600	42.46	-46.68	28.48	-71.00	-13.00	58.00	Horizontal
4	4122.9500	41.55	-45.91	29.40	-70.23	-13.00	57.23	Horizontal
5	4947.5400	41.64	-45.69	31.29	-68.02	-13.00	55.02	Horizontal
6	5772.1300	40.23	-44.64	32.65	-67.01	-13.00	54.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	44.22	-48.22	25.27	-73.99	-13.00	60.99	Vertical
2	2473.7700	43.10	-47.32	27.23	-72.25	-13.00	59.25	Vertical
3	3298.3600	42.27	-46.68	28.48	-71.19	-13.00	58.19	Vertical
4	4122.9500	42.00	-45.91	29.40	-69.78	-13.00	56.78	Vertical
5	4947.5400	41.64	-45.69	31.29	-68.02	-13.00	55.02	Vertical
6	5772.1300	40.04	-44.64	32.65	-67.20	-13.00	54.20	Vertical



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Test Band = LTE Band5_10MHz_TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.95	-48.20	25.30	-75.22	-13.00	62.22	Horizontal
2	2496.2700	43.35	-47.28	27.29	-71.90	-13.00	58.90	Horizontal
3	3328.3600	42.66	-46.64	28.50	-70.74	-13.00	57.74	Horizontal
4	4160.4500	41.67	-45.94	29.49	-70.04	-13.00	57.04	Horizontal
5	4992.5400	41.12	-45.79	31.38	-68.55	-13.00	55.55	Horizontal
6	5824.6300	40.25	-44.74	32.67	-67.08	-13.00	54.08	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	44.39	-48.20	25.30	-73.78	-13.00	60.78	Vertical
2	2496.2700	43.06	-47.28	27.29	-72.19	-13.00	59.19	Vertical
3	3328.3600	42.58	-46.64	28.50	-70.82	-13.00	57.82	Vertical
4	4160.4500	40.77	-45.94	29.49	-70.94	-13.00	57.94	Vertical
5	4992.5400	40.91	-45.79	31.38	-68.76	-13.00	55.76	Vertical
6	5824.6300	40.09	-44.74	32.67	-67.24	-13.00	54.24	Vertical



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Test Band = LTE Band5_10MHz_TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	43.79	-48.18	25.32	-74.34	-13.00	61.34	Horizontal
2	2518.7700	43.46	-47.21	27.34	-71.67	-13.00	58.67	Horizontal
3	3358.3600	42.34	-46.60	28.52	-71.00	-13.00	58.00	Horizontal
4	4197.9500	41.35	-45.96	29.58	-70.29	-13.00	57.29	Horizontal
5	5037.5400	40.12	-45.65	31.49	-69.30	-13.00	56.30	Horizontal
6	5887.1300	40.71	-44.93	32.68	-66.80	-13.00	53.80	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.92	-48.18	25.32	-75.21	-13.00	62.21	Vertical
2	2518.7700	43.07	-47.21	27.34	-72.06	-13.00	59.06	Vertical
3	3358.3600	42.53	-46.60	28.52	-70.81	-13.00	57.81	Vertical
4	4197.9500	41.02	-45.96	29.58	-70.62	-13.00	57.62	Vertical
5	5037.5400	41.14	-45.65	31.49	-68.28	-13.00	55.28	Vertical
6	5887.1300	40.36	-44.93	32.68	-67.15	-13.00	54.15	Vertical



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Test Band = LTE 5A_66A_TM1

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	41.06	-45.59	28.30	-71.49	-13.00	58.49	Horizontal
2	2473.7700	41.06	-45.59	28.30	-71.49	-13.00	58.49	Horizontal
3	3298.3600	41.56	-46.45	28.48	-71.67	-13.00	58.67	Horizontal
4	3404.1800	41.50	-46.28	28.54	-71.50	-13.00	58.50	Horizontal
5	5106.2700	39.46	-45.36	31.66	-69.51	-13.00	56.51	Horizontal
6	6808.3600	38.79	-44.16	34.86	-65.78	-13.00	52.78	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	41.14	-45.59	28.30	-71.41	-13.00	58.41	Vertical
2	2473.7700	41.14	-45.59	28.30	-71.41	-13.00	58.41	Vertical
3	3298.3600	41.89	-46.45	28.48	-71.34	-13.00	58.34	Vertical
4	3404.1800	41.41	-46.28	28.54	-71.59	-13.00	58.59	Vertical
5	5106.2700	38.98	-45.36	31.66	-69.99	-13.00	56.99	Vertical
6	6808.3600	38.60	-44.16	34.86	-65.97	-13.00	52.97	Vertical



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Test Band = LTE 5A_66A_TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	41.61	-45.59	28.30	-70.94	-13.00	57.94	Horizontal
2	2496.2700	41.61	-45.59	28.30	-70.94	-13.00	57.94	Horizontal
3	3328.3600	41.45	-46.41	28.50	-71.72	-13.00	58.72	Horizontal
4	3454.1800	42.04	-46.27	28.57	-70.92	-13.00	57.92	Horizontal
5	5181.2700	39.36	-45.30	31.84	-69.36	-13.00	56.36	Horizontal
6	6908.3600	38.12	-44.05	35.04	-66.15	-13.00	53.15	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.57	-45.59	28.30	-69.98	-13.00	56.98	Vertical
2	2496.2700	42.57	-45.59	28.30	-69.98	-13.00	56.98	Vertical
3	3328.3600	42.42	-46.41	28.50	-70.75	-13.00	57.75	Vertical
4	3454.1800	41.16	-46.27	28.57	-71.80	-13.00	58.80	Vertical
5	5181.2700	39.08	-45.30	31.84	-69.64	-13.00	56.64	Vertical
6	6908.3600	38.02	-44.05	35.04	-66.25	-13.00	53.25	Vertical



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Test Band = LTE 5A_66A_TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.17	-45.59	28.30	-70.38	-13.00	57.38	Horizontal
2	2518.7700	42.17	-45.59	28.30	-70.38	-13.00	57.38	Horizontal
3	3358.3600	41.28	-46.35	28.52	-71.82	-13.00	58.82	Horizontal
4	3504.1800	41.85	-46.25	28.60	-71.06	-13.00	58.06	Horizontal
5	5256.2700	39.37	-45.17	32.02	-69.05	-13.00	56.05	Horizontal
6	7008.3600	38.72	-43.61	35.22	-64.92	-13.00	51.92	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	41.81	-45.59	28.30	-70.74	-13.00	57.74	Vertical
2	2518.7700	41.81	-45.59	28.30	-70.74	-13.00	57.74	Vertical
3	3358.3600	41.50	-46.35	28.52	-71.60	-13.00	58.60	Vertical
4	3504.1800	41.45	-46.25	28.60	-71.46	-13.00	58.46	Vertical
5	5256.2700	39.27	-45.17	32.02	-69.15	-13.00	56.15	Vertical
6	7008.3600	38.21	-43.61	35.22	-65.43	-13.00	52.43	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	3.60	0.004304	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.80	-0.000956	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	3.00	0.003586	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	3.60	0.004304	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	3.10	0.003706	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.90	0.001076	±2.5	PASS

---End of Attachment---



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