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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	1RB#24	23.44	17.49	38.45	PASS
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#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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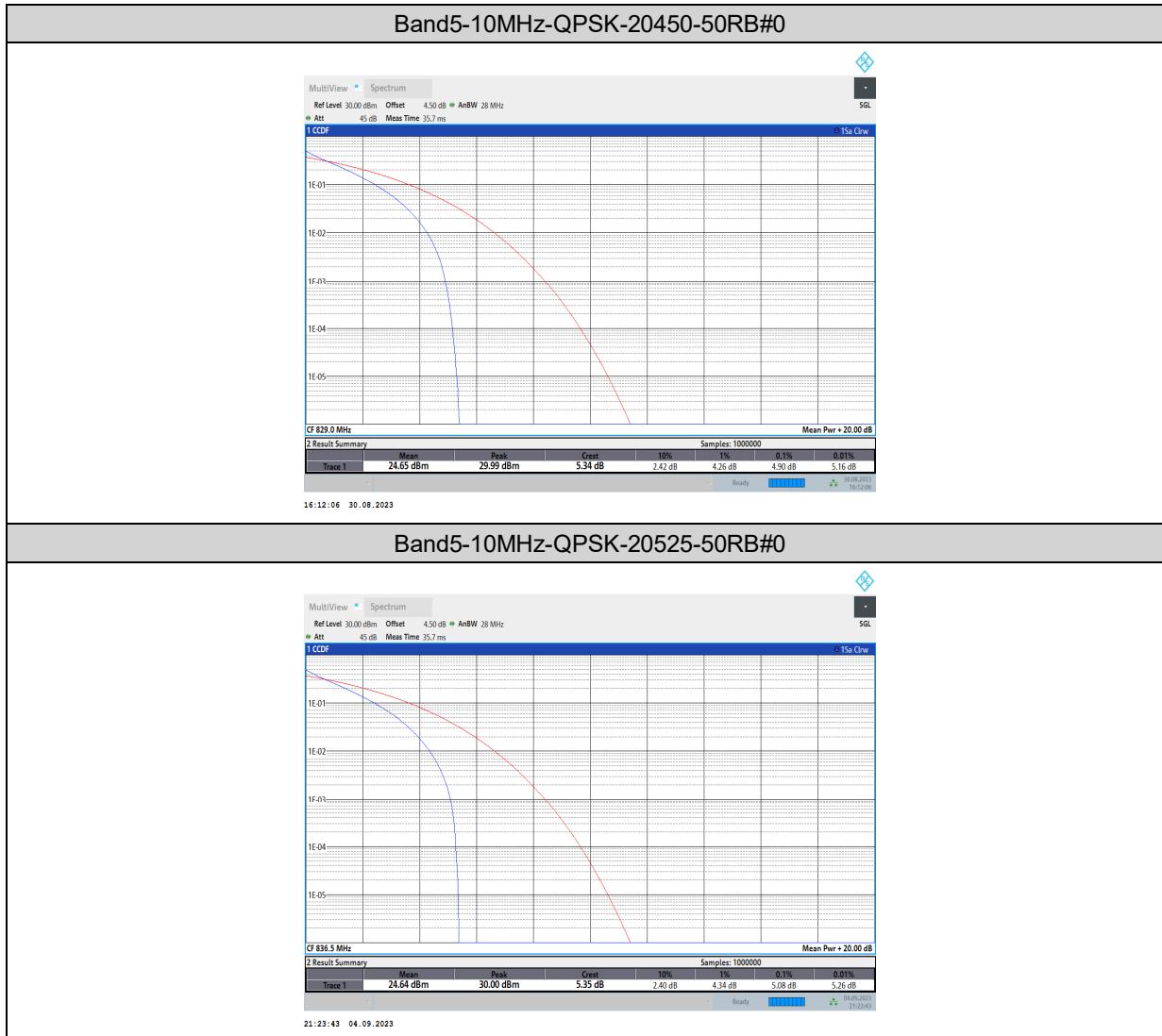


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Test Graphs



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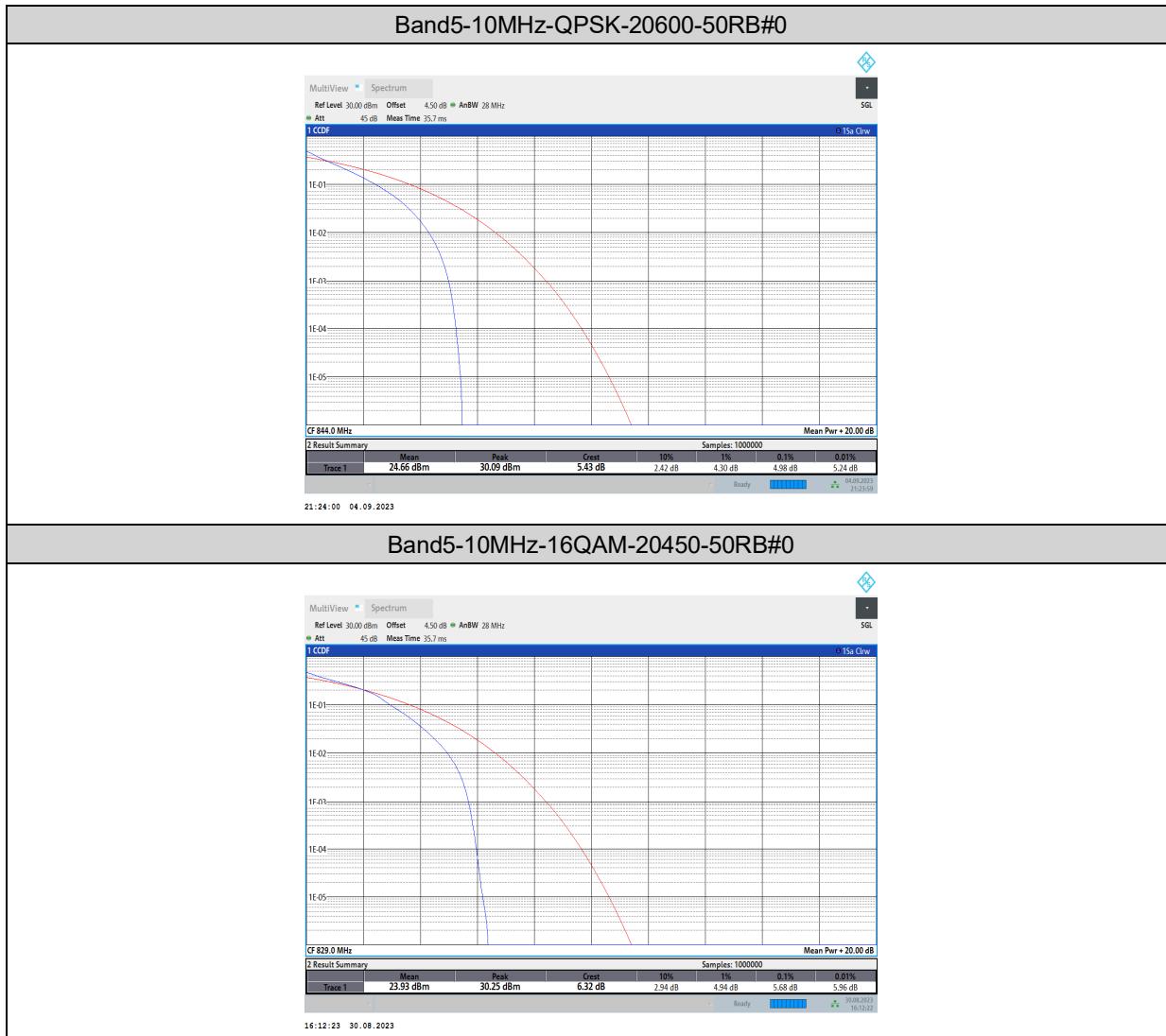
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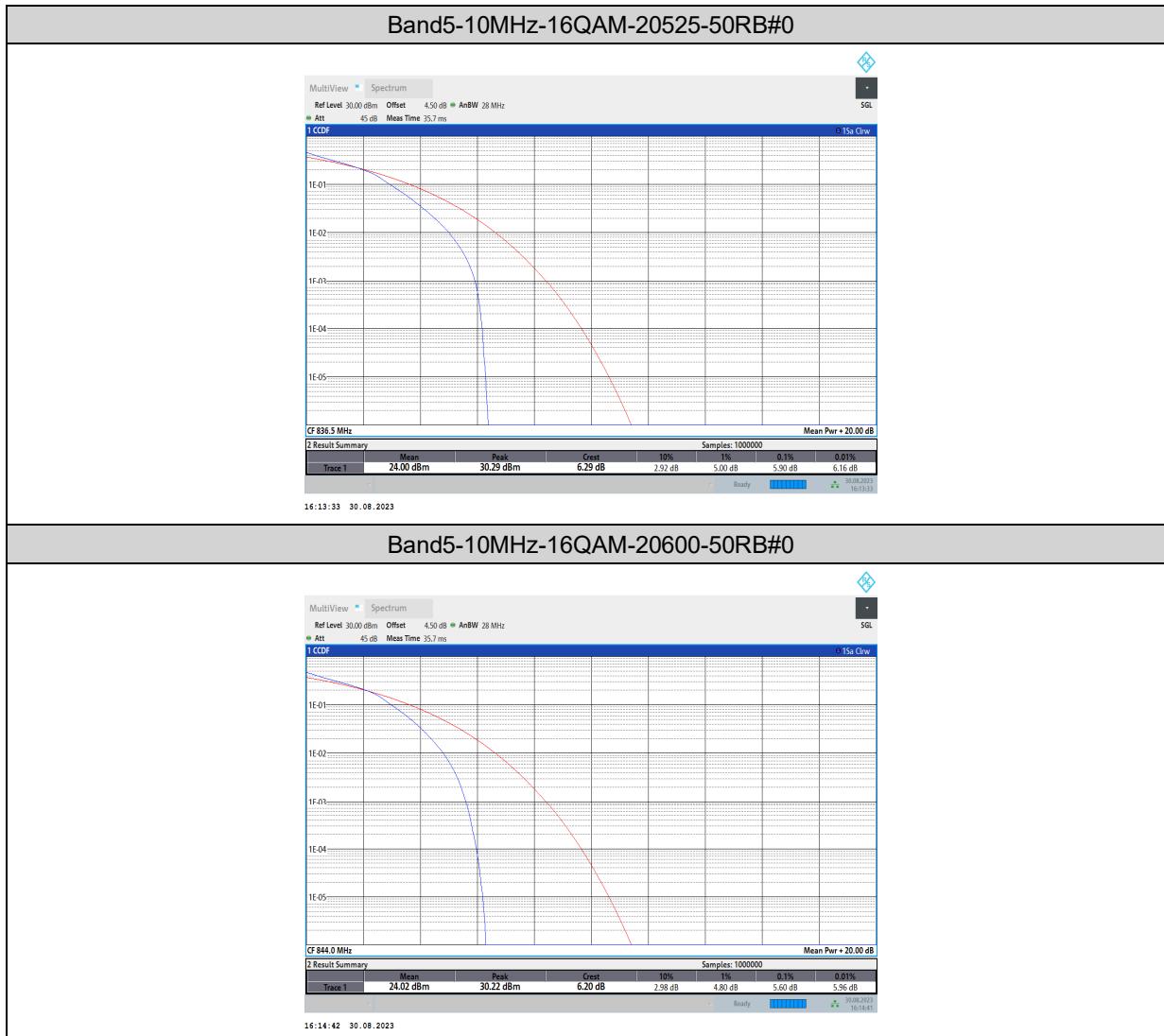
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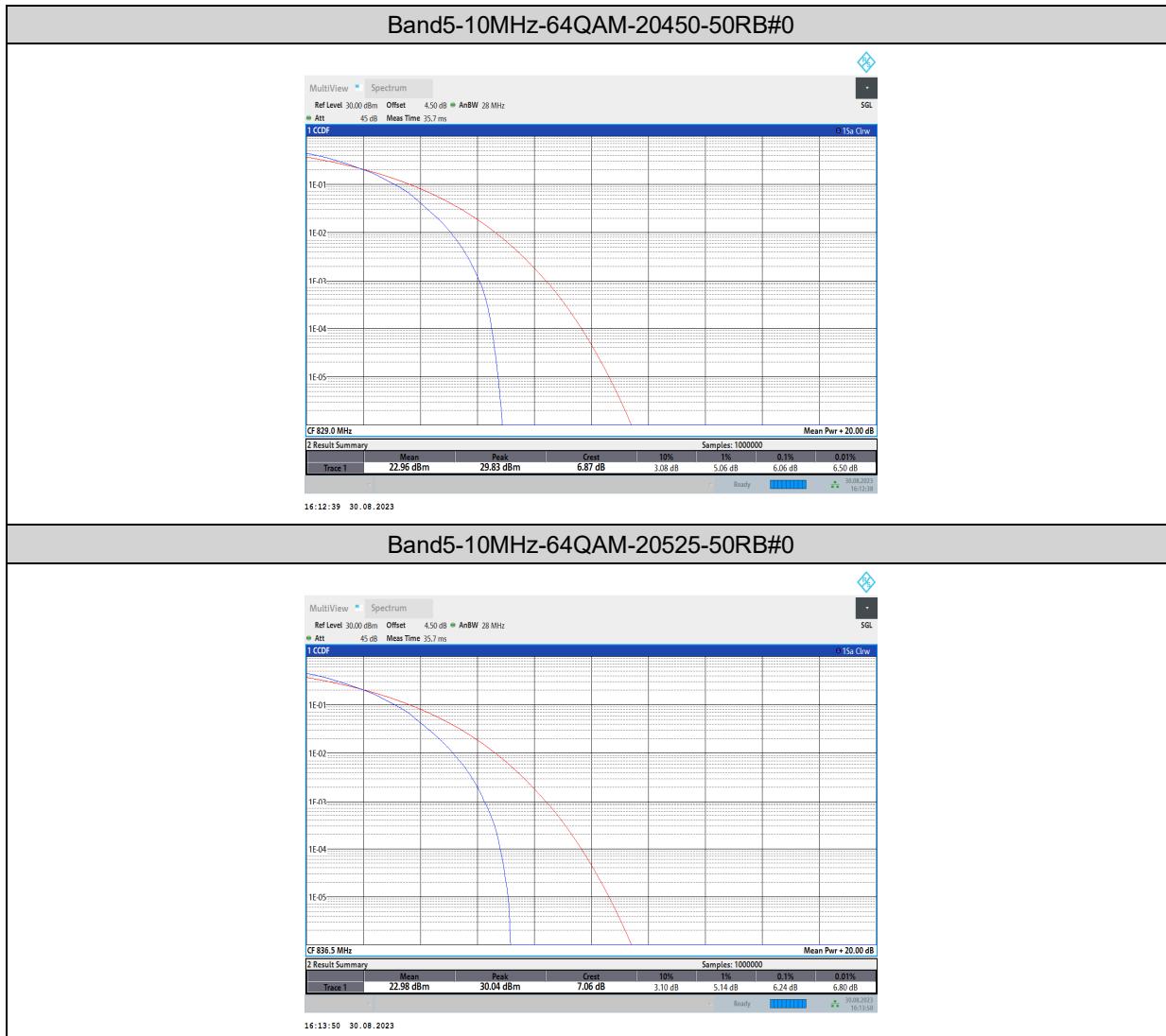
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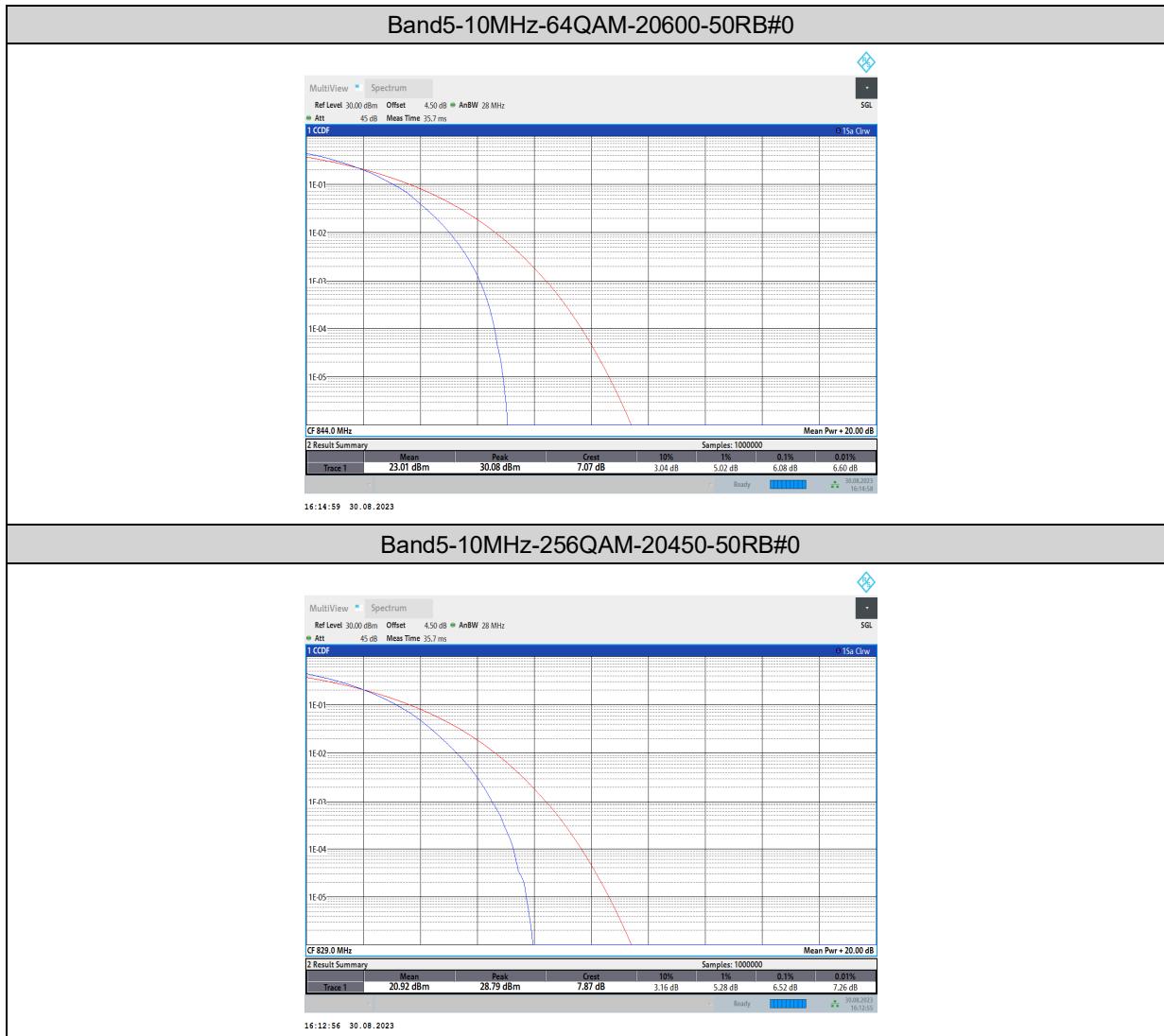
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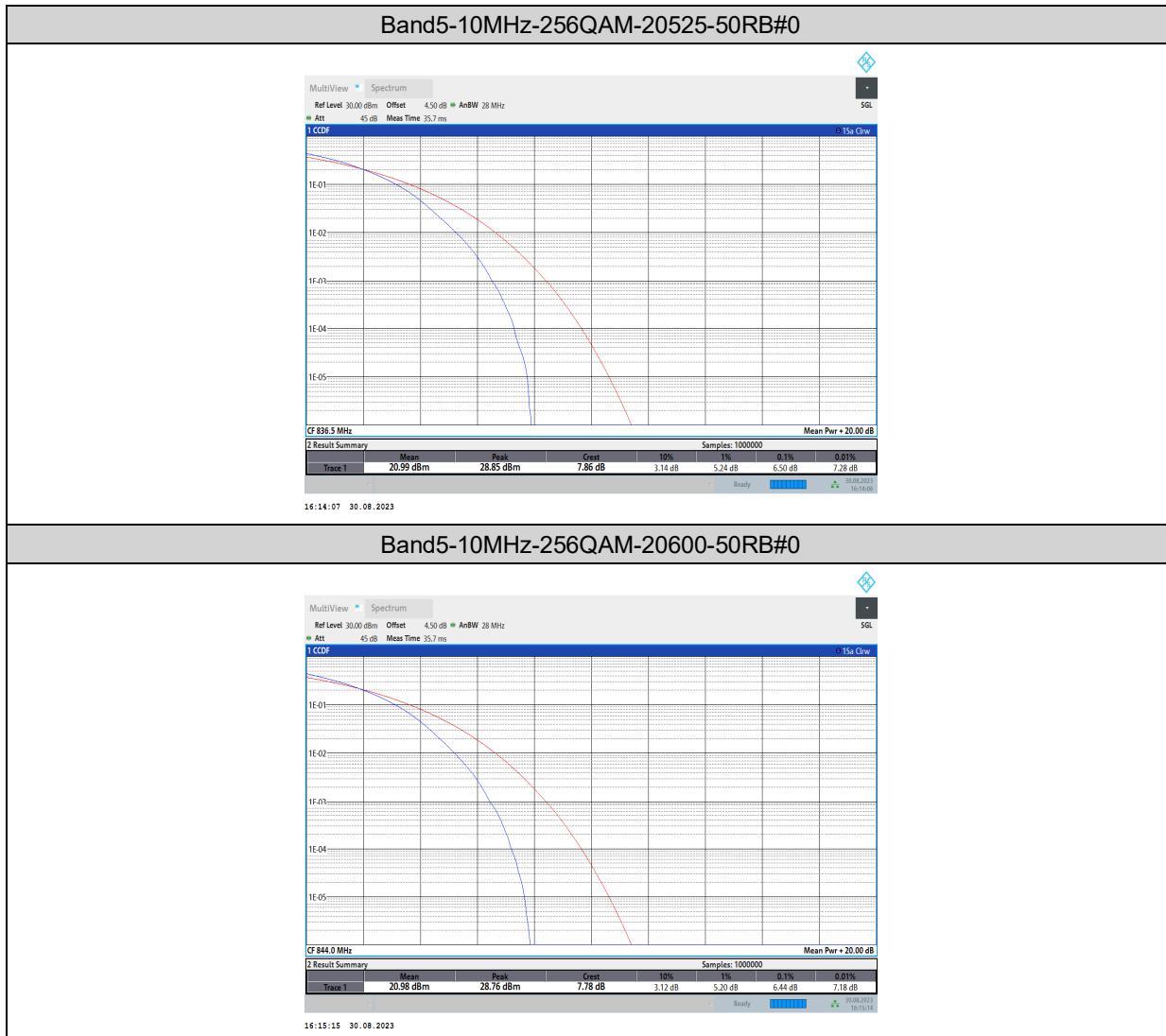
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26dB Bandwidth and Occupied Bandwidth

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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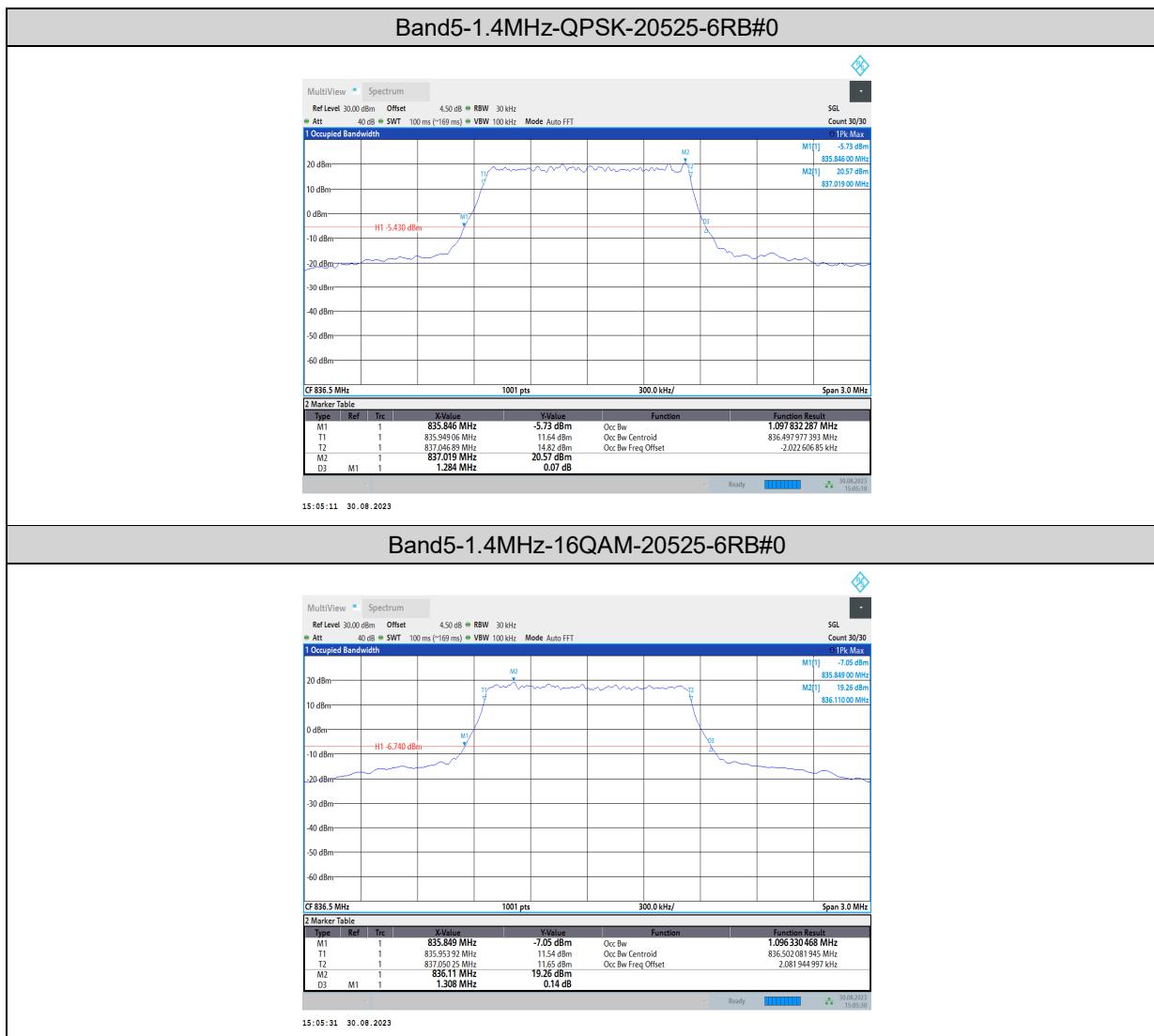
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Test Graphs



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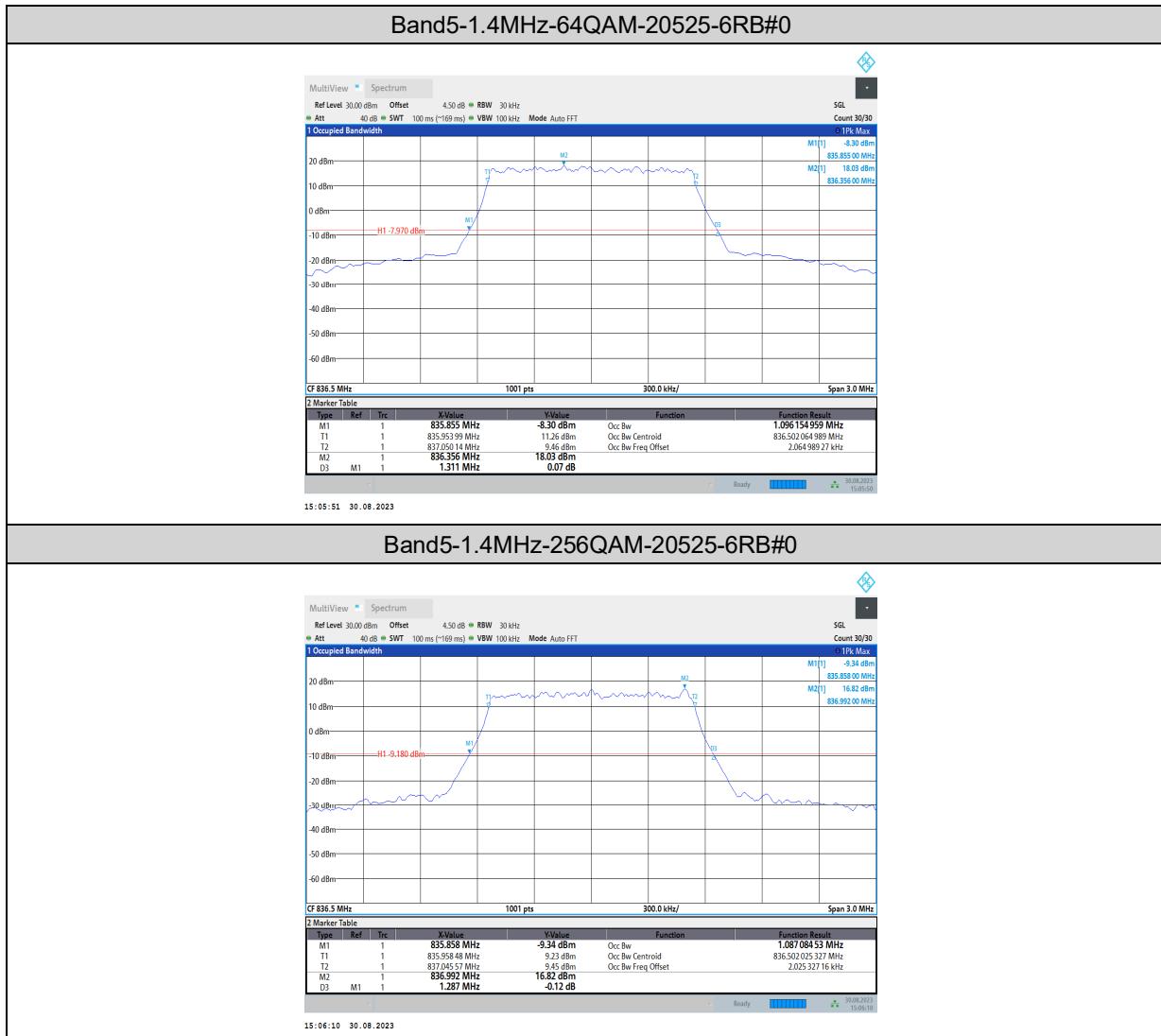


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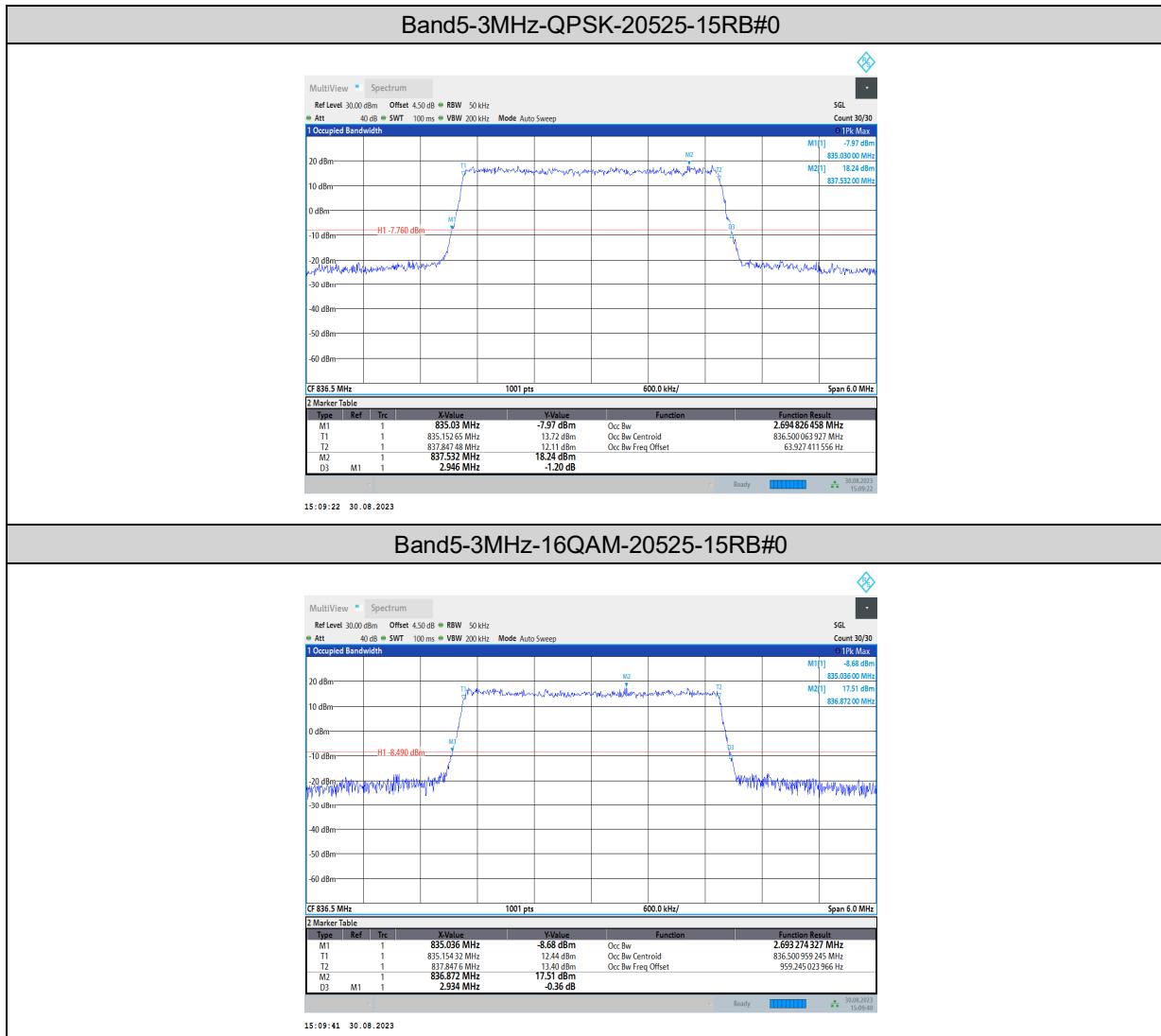
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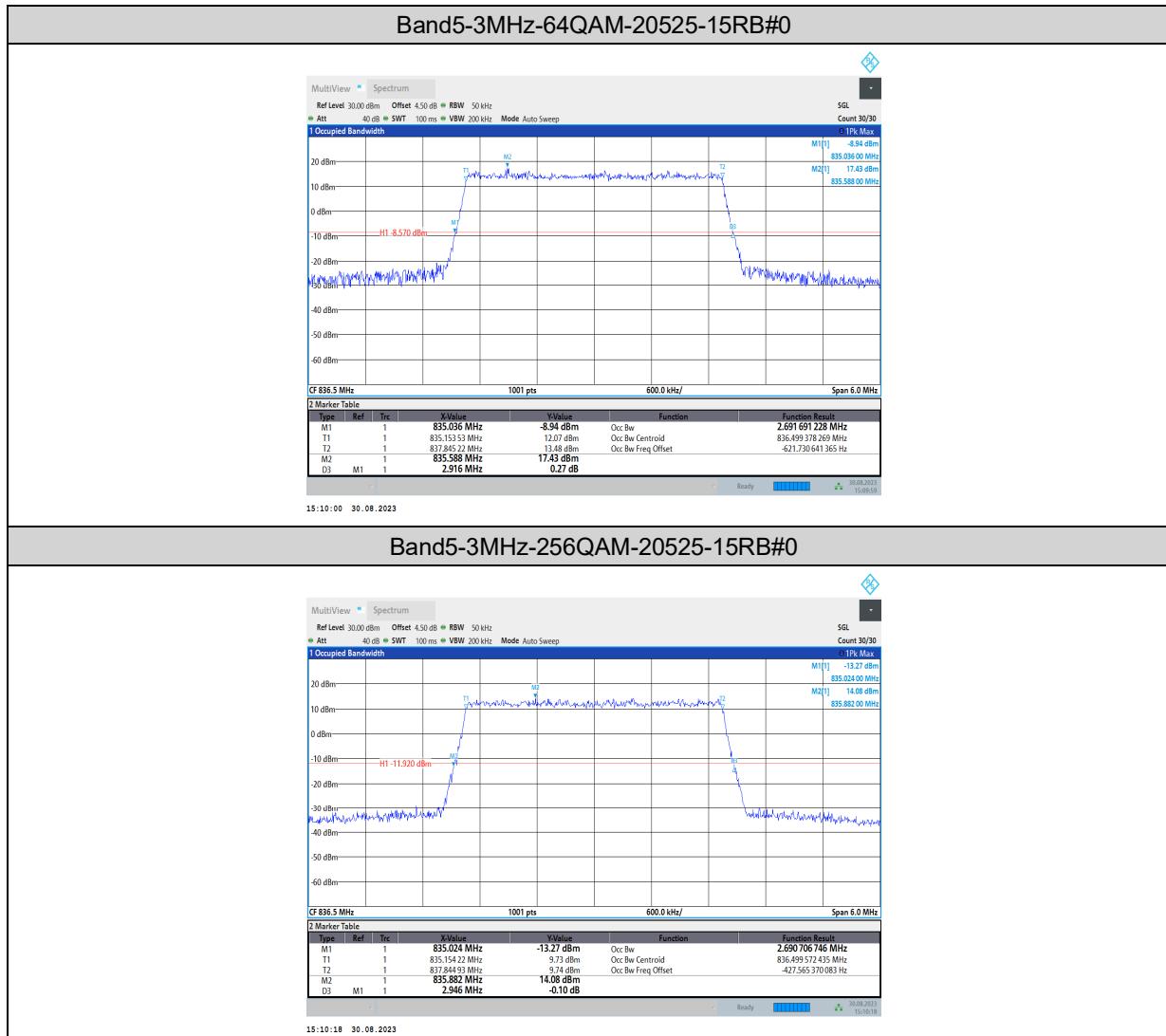
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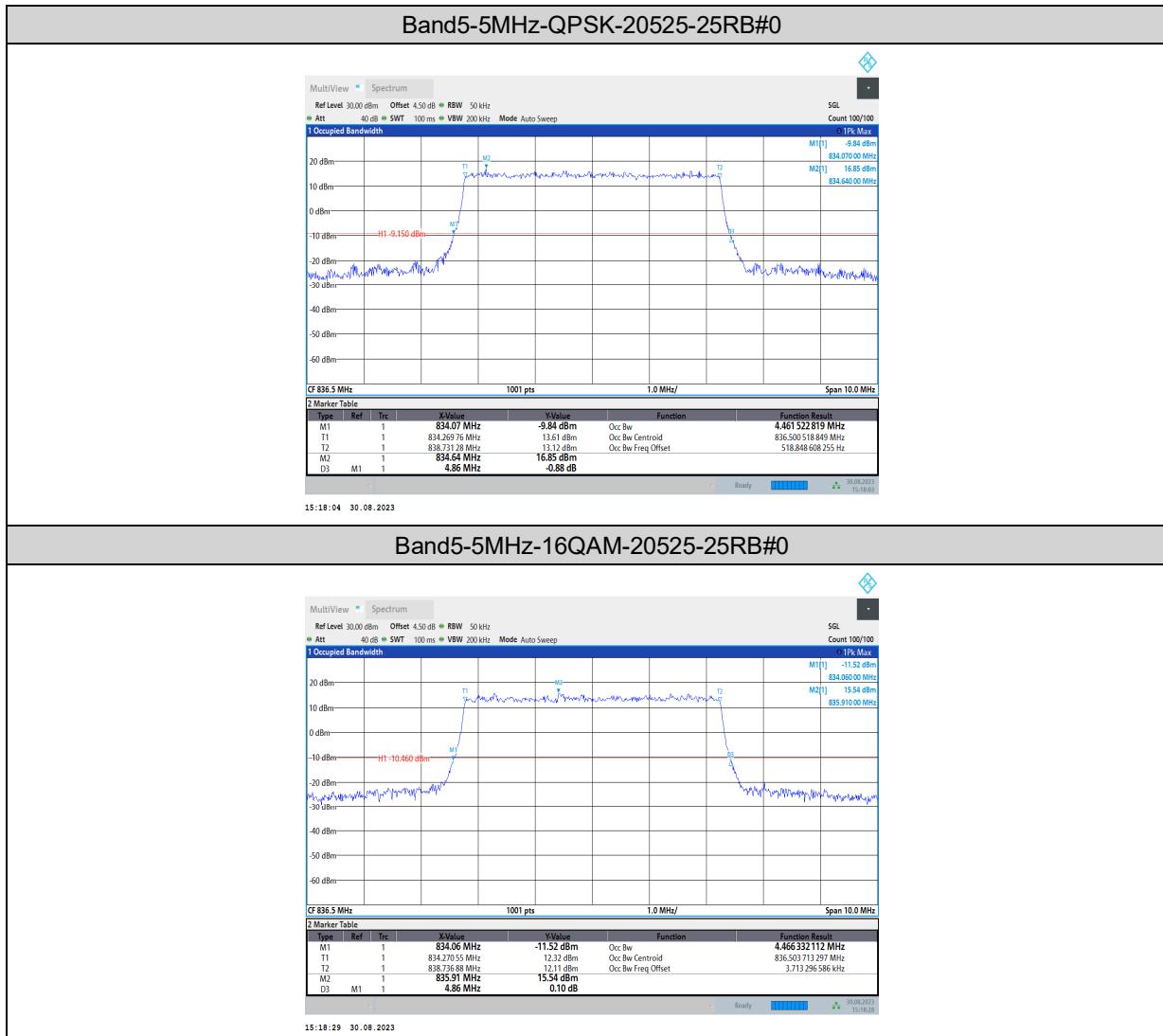
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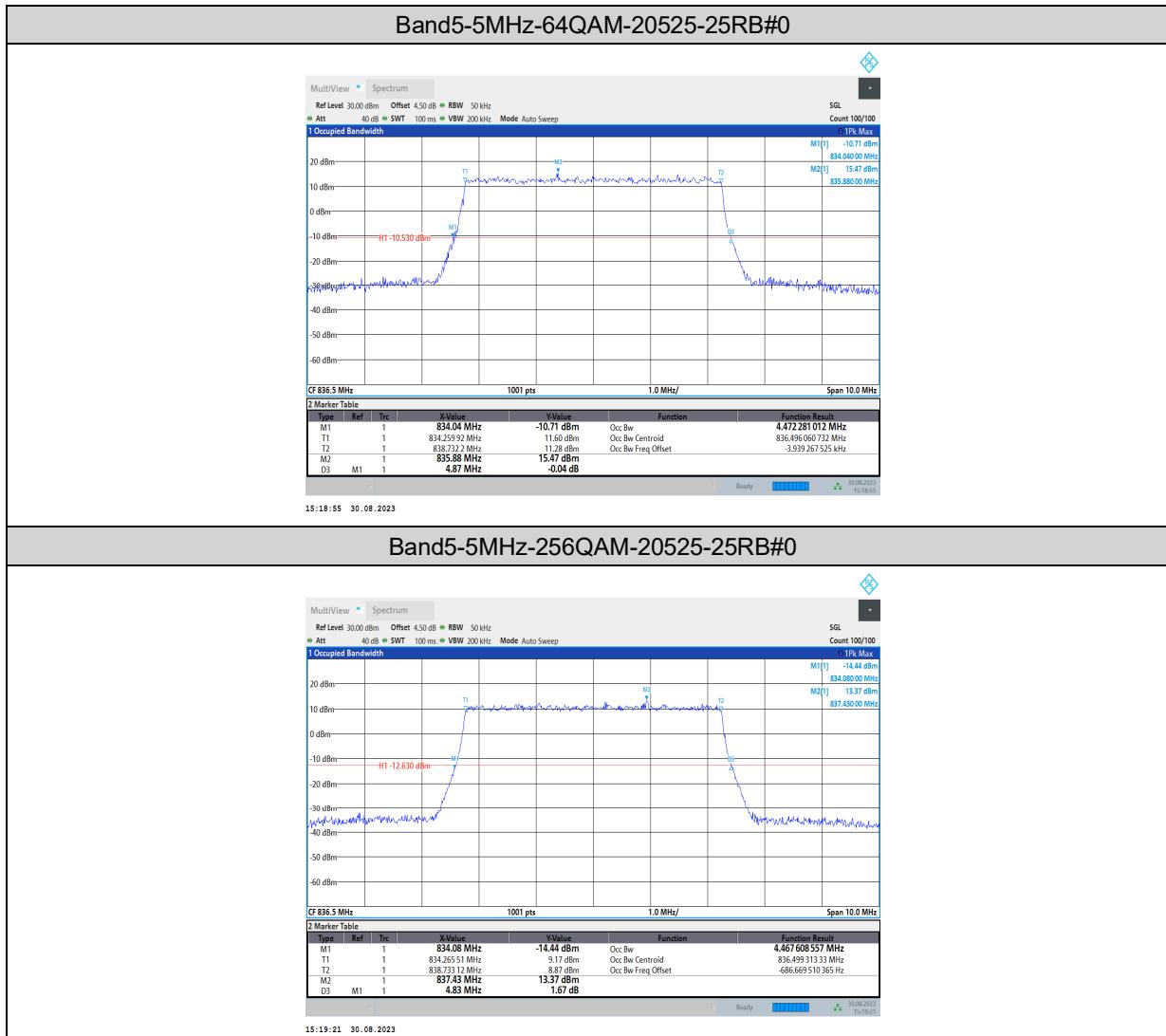
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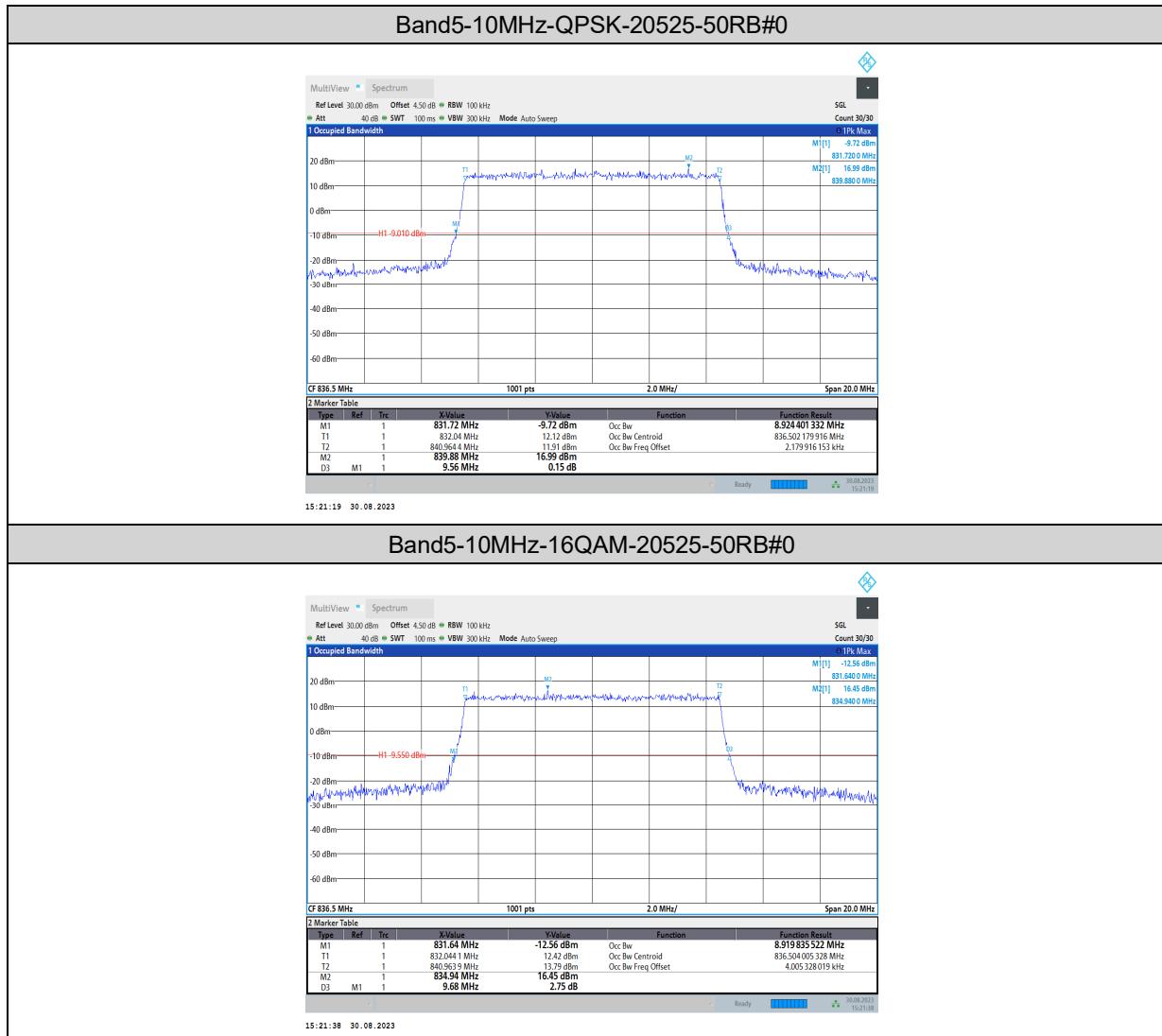
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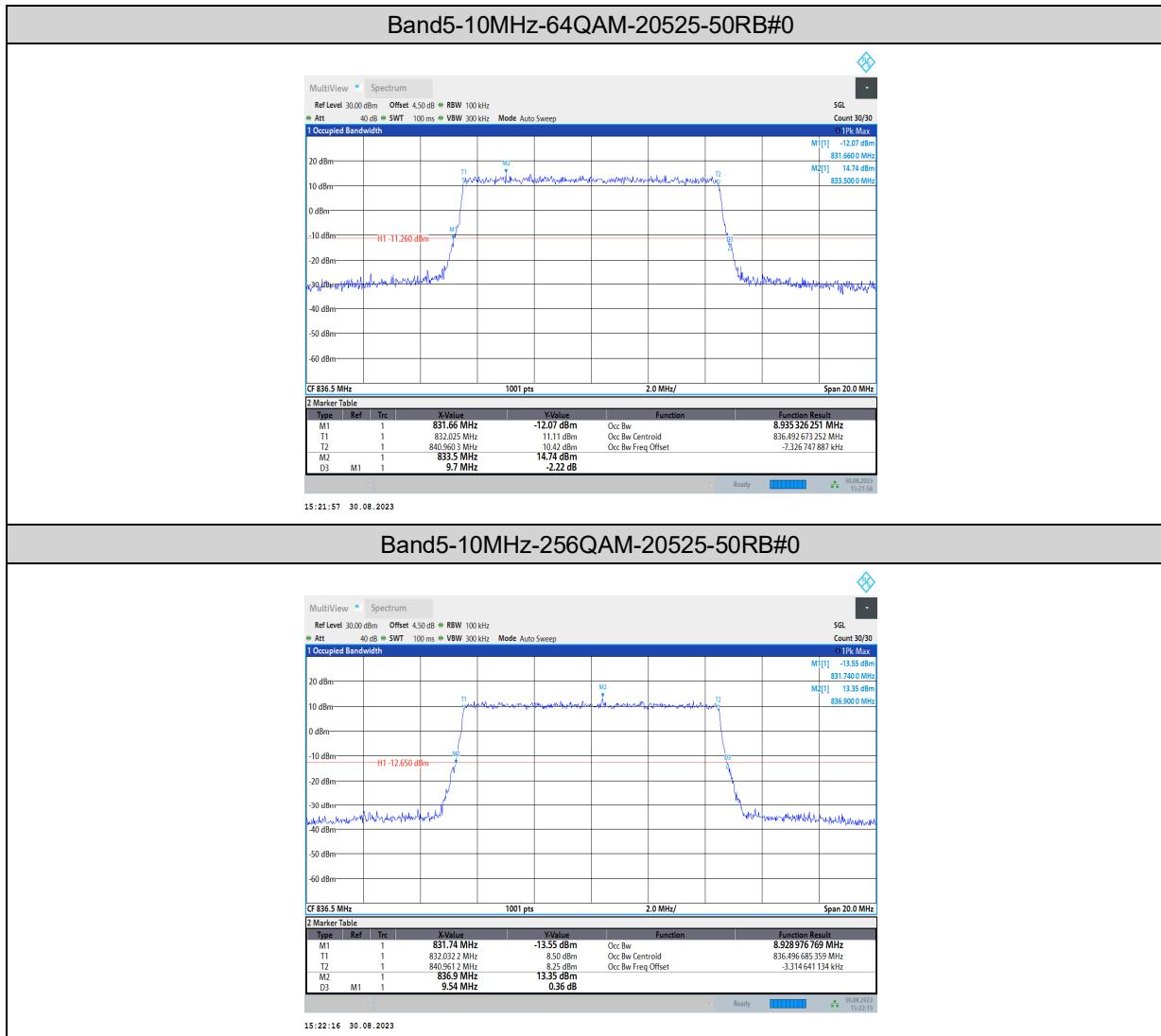
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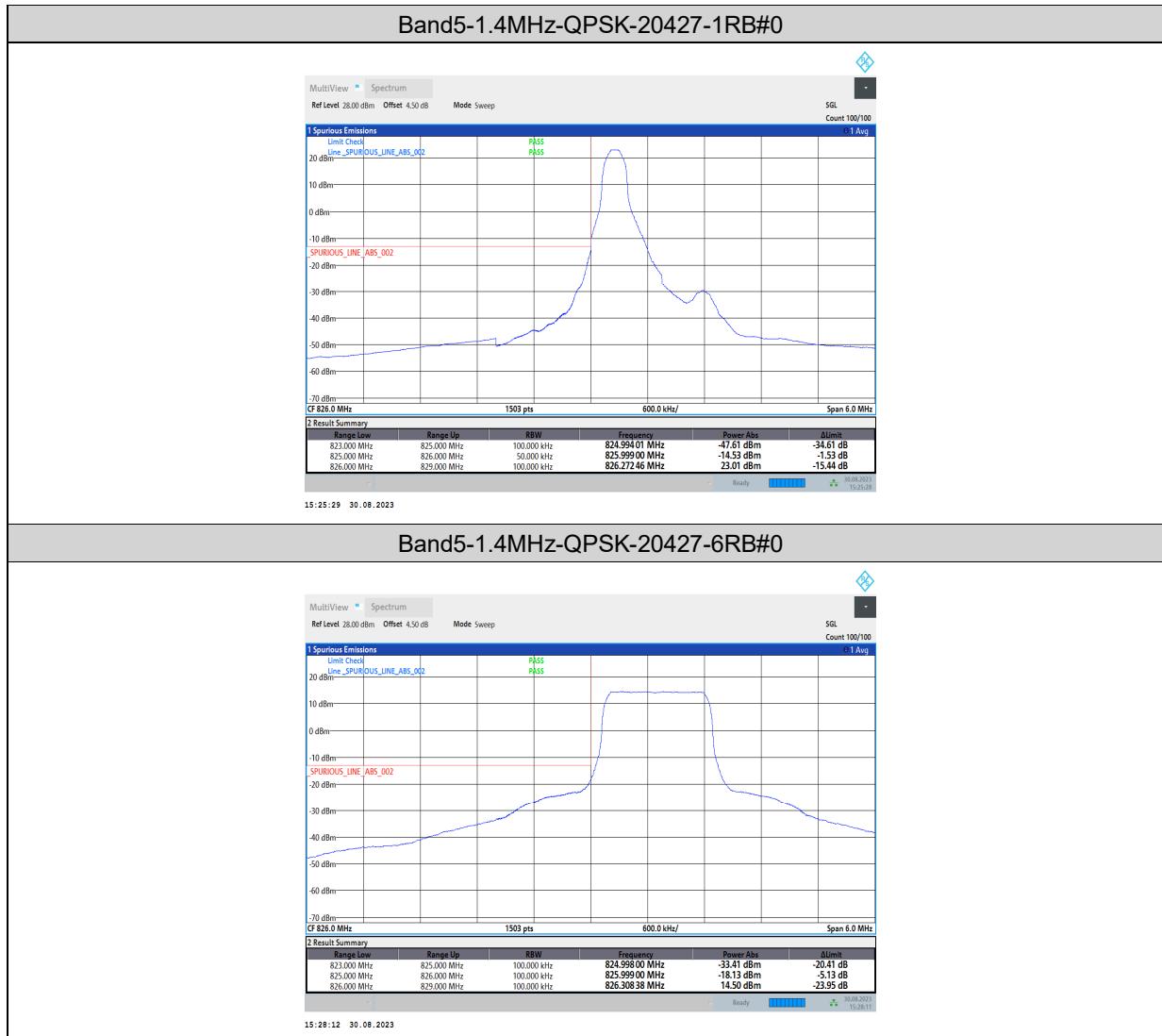
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Band Edge

Test Graphs



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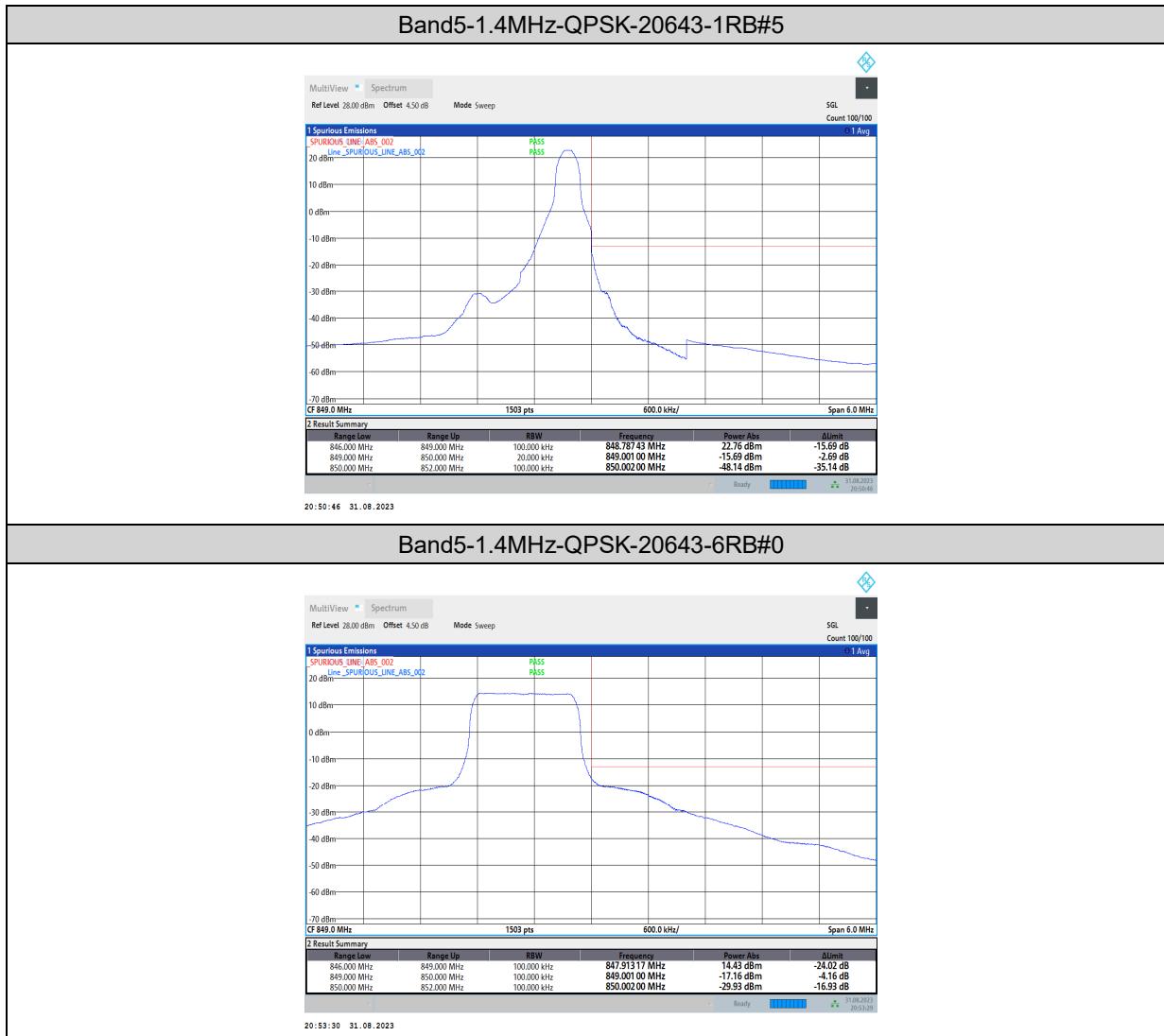


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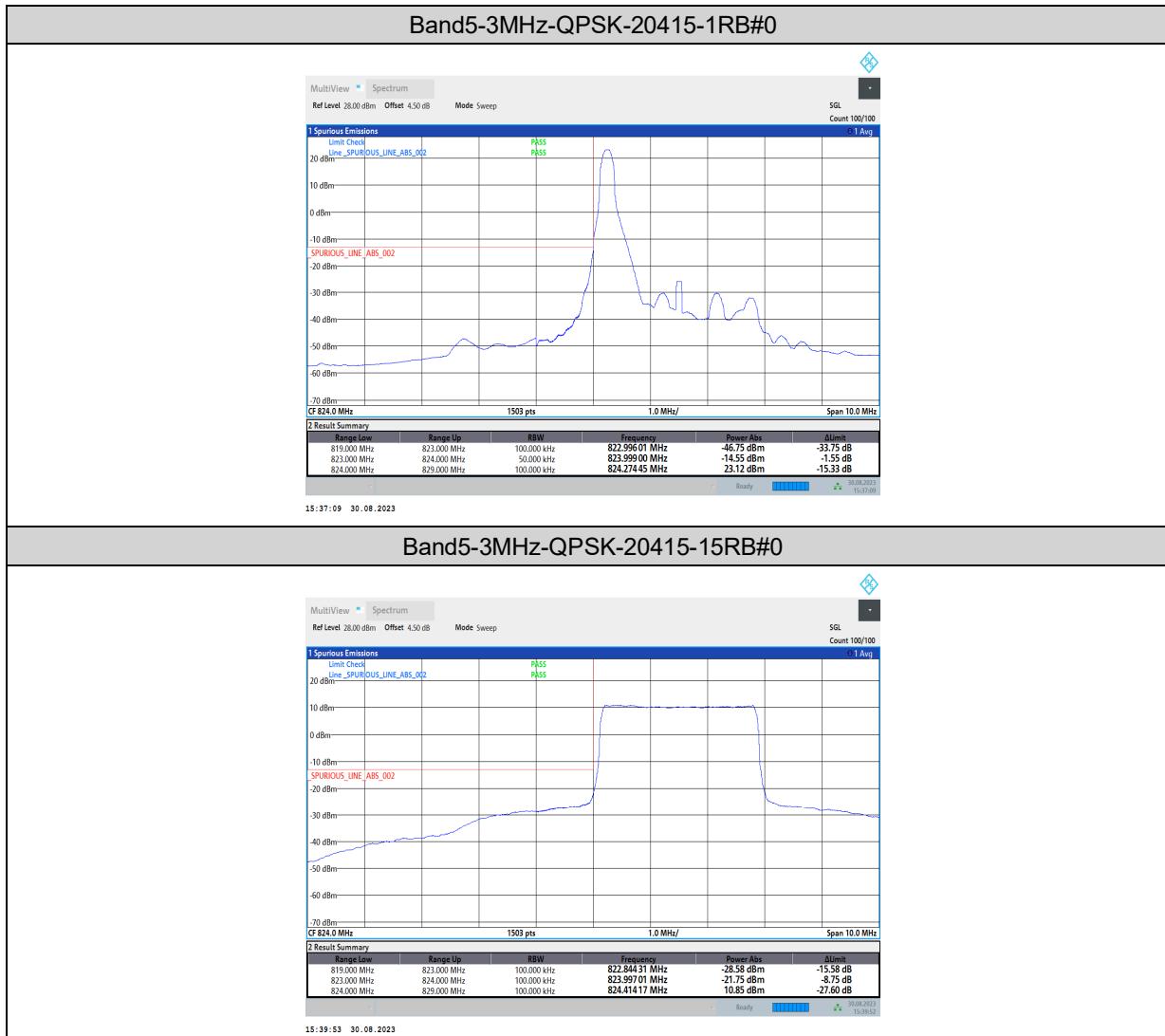
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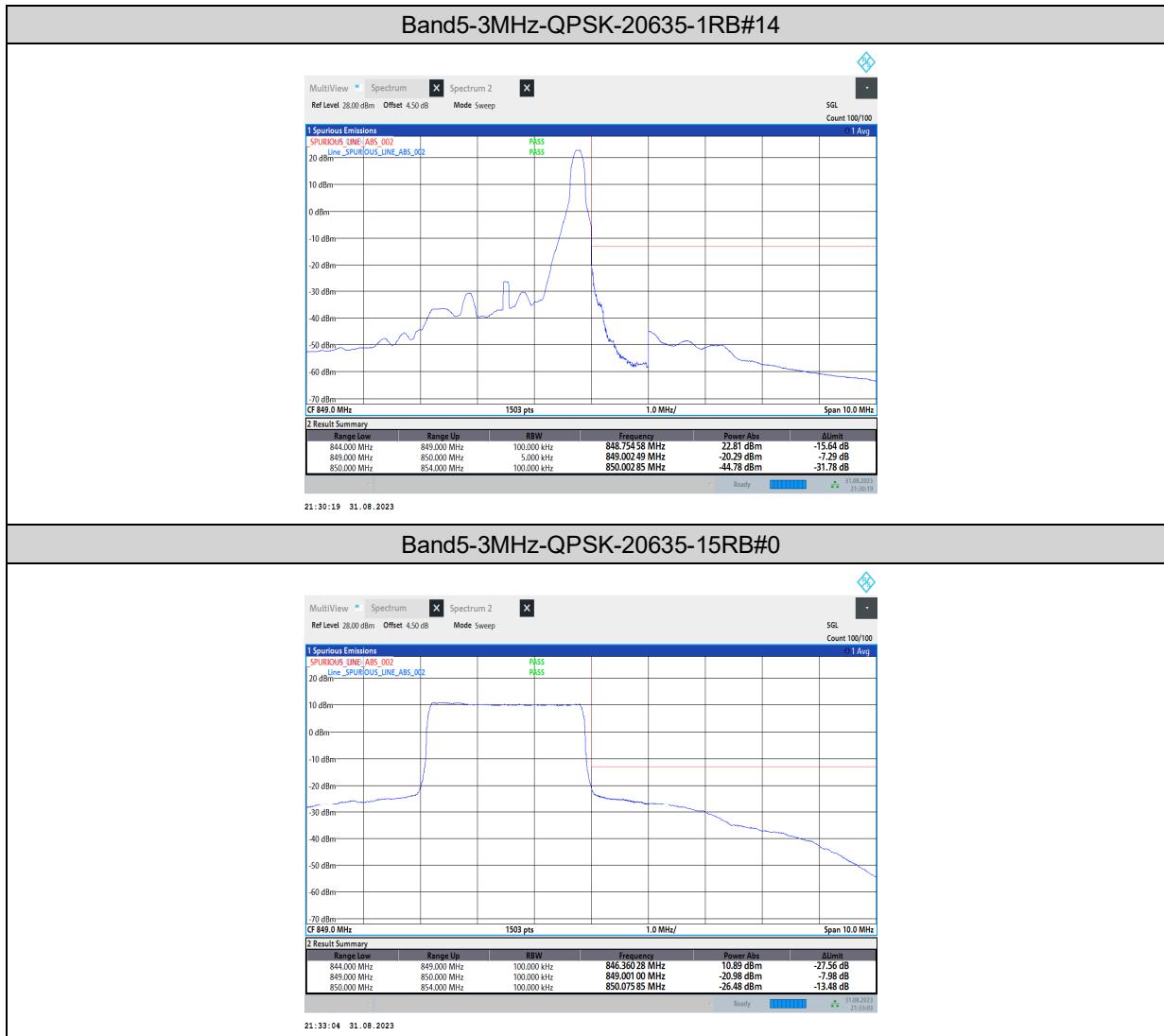
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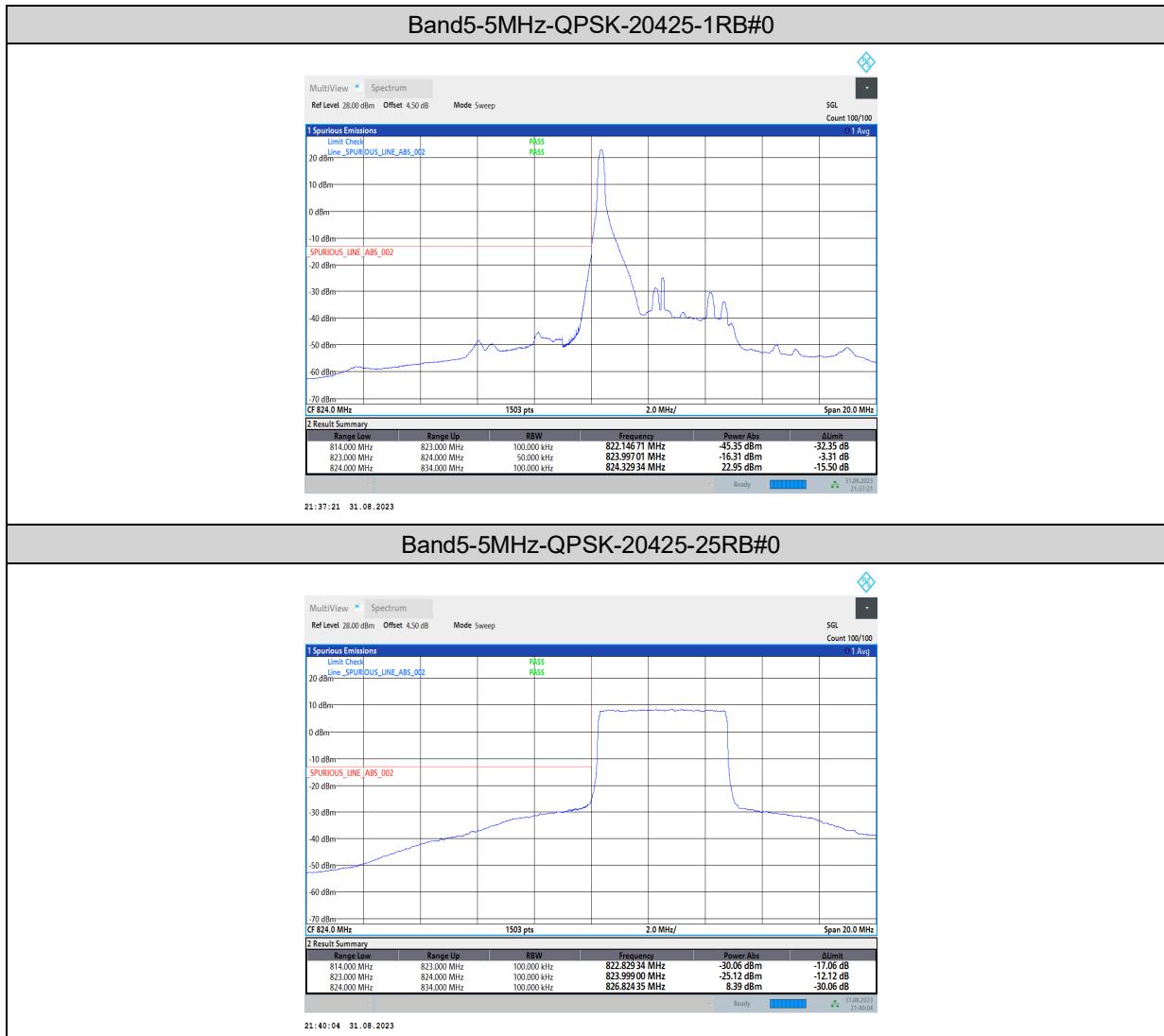
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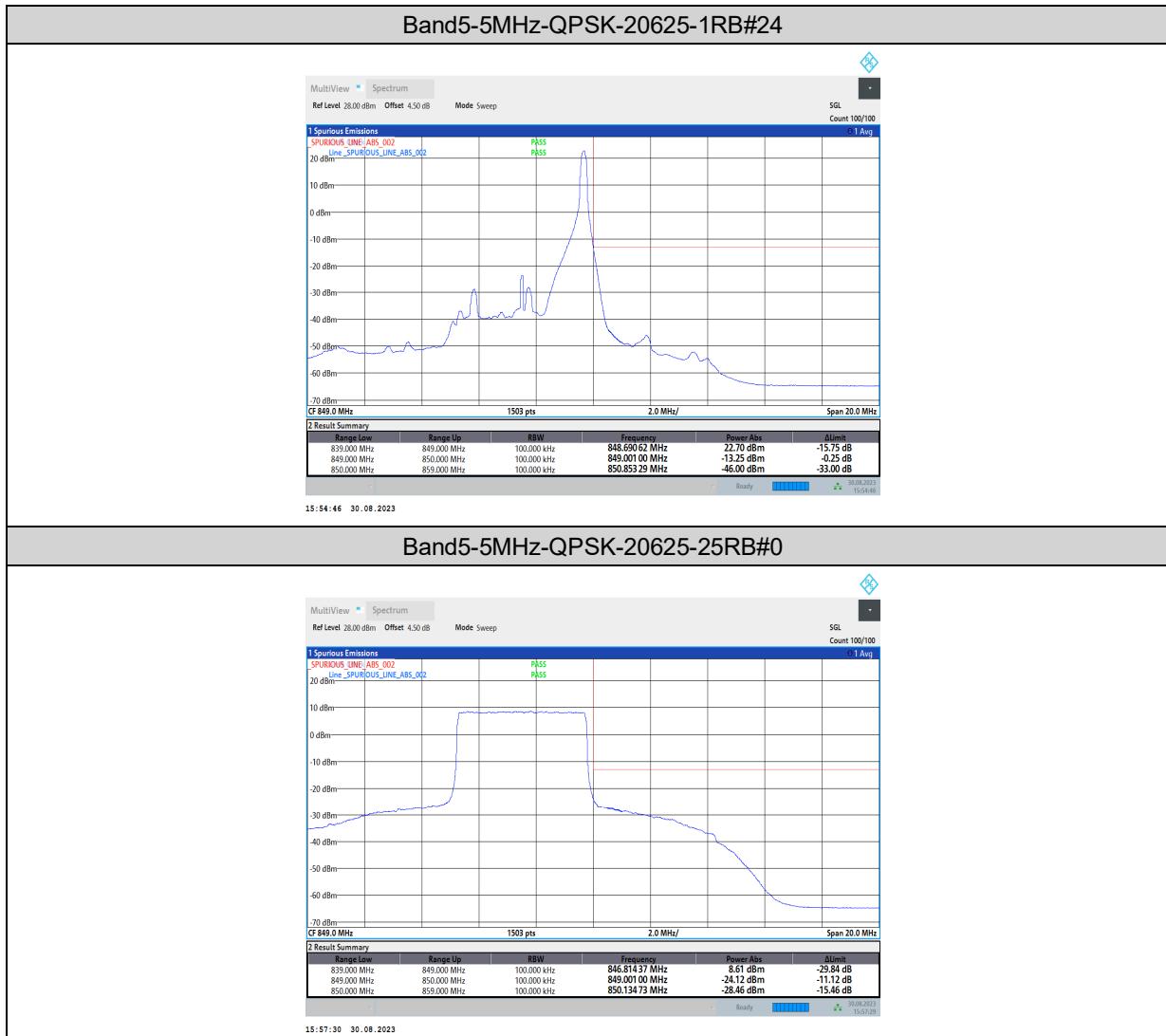
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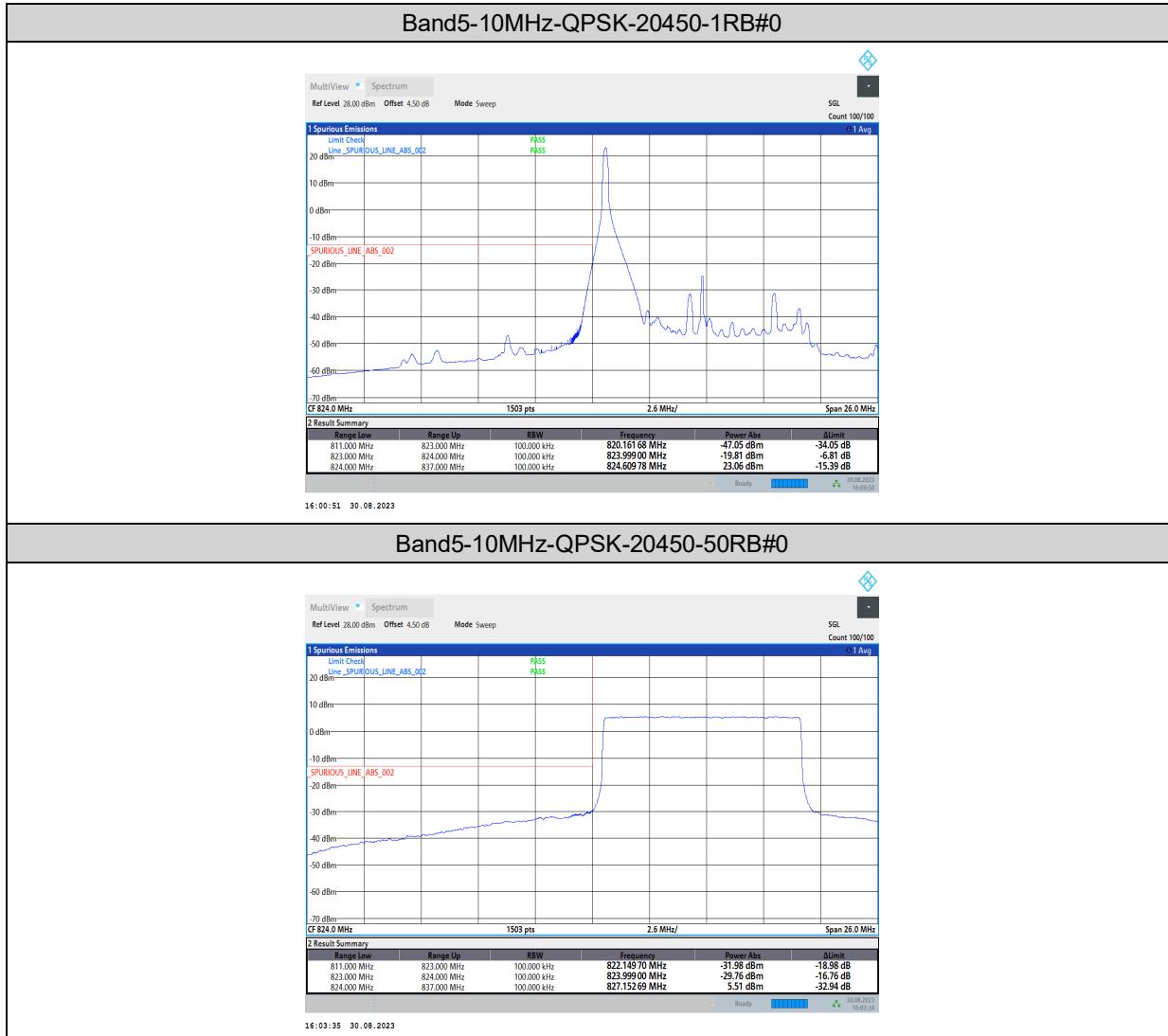
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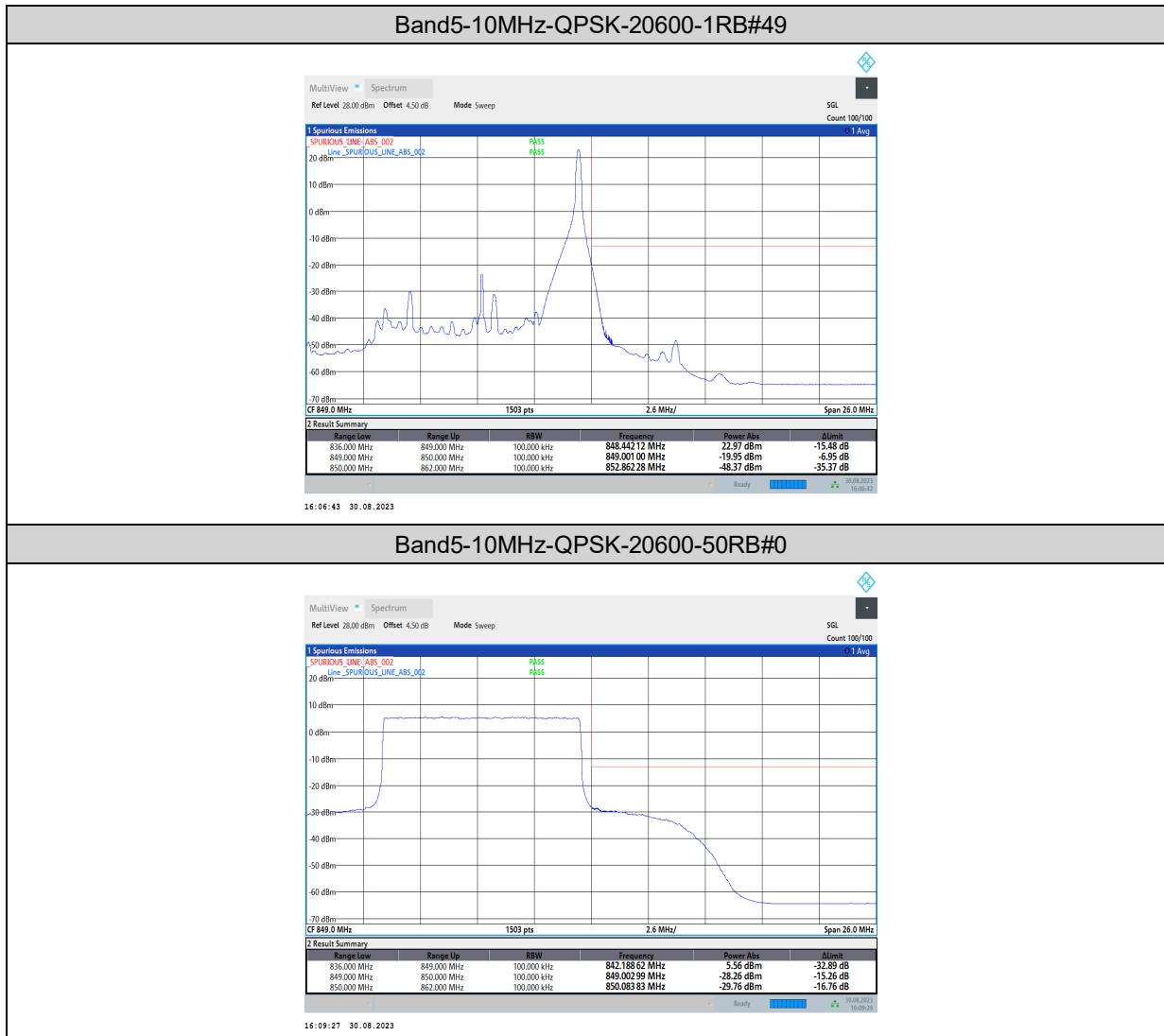
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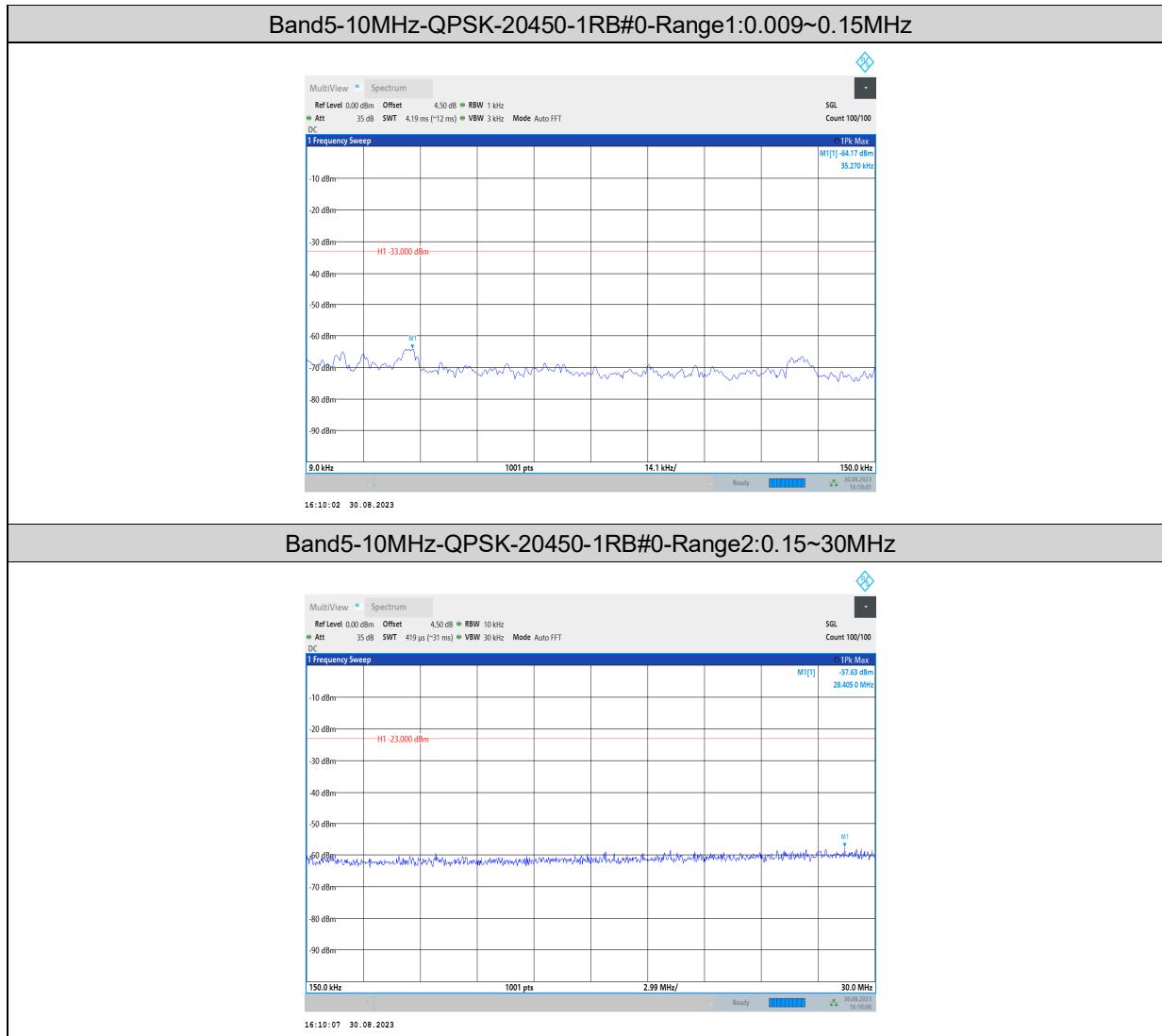
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Conducted Spurious Emission

Test Graphs



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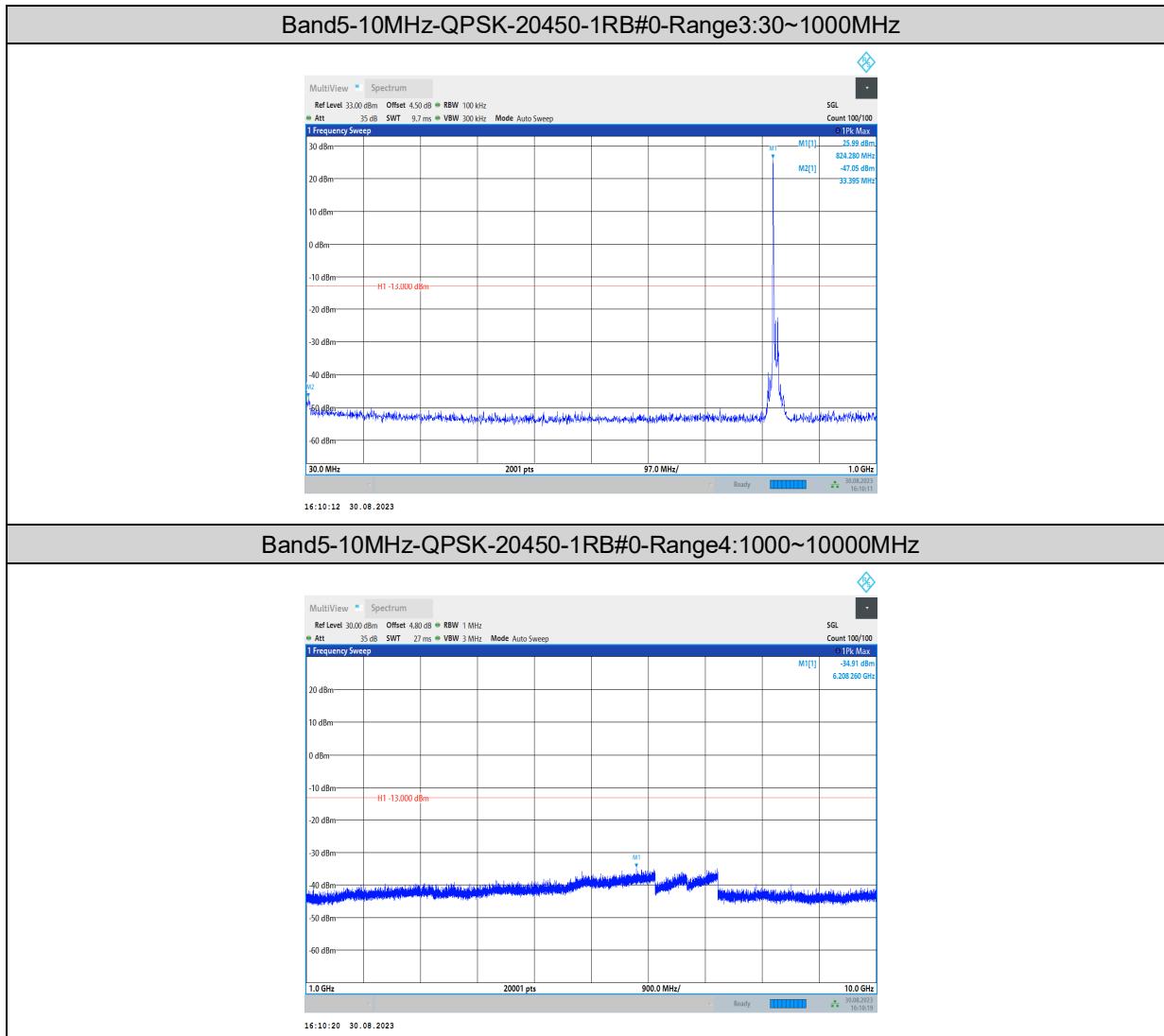
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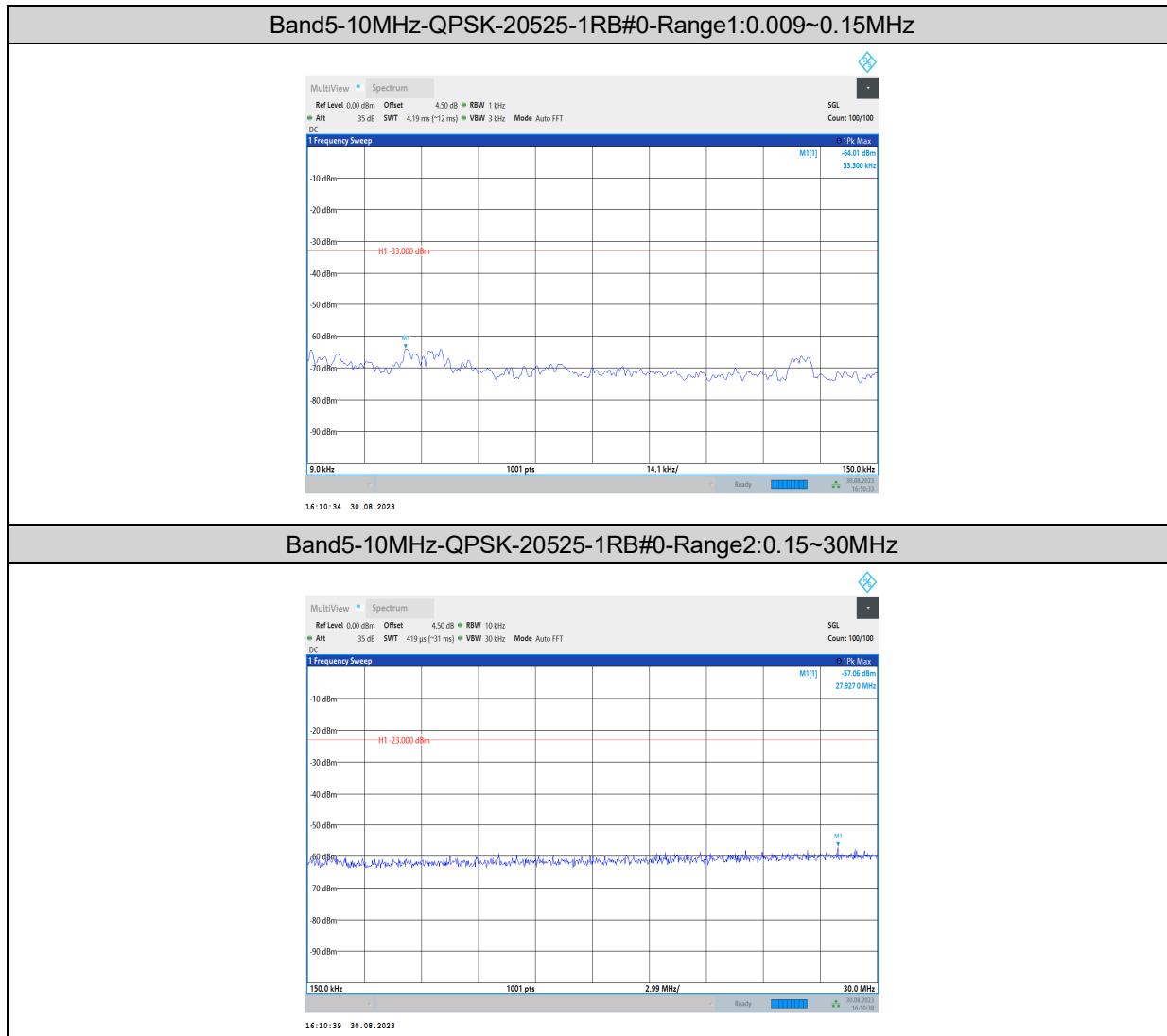
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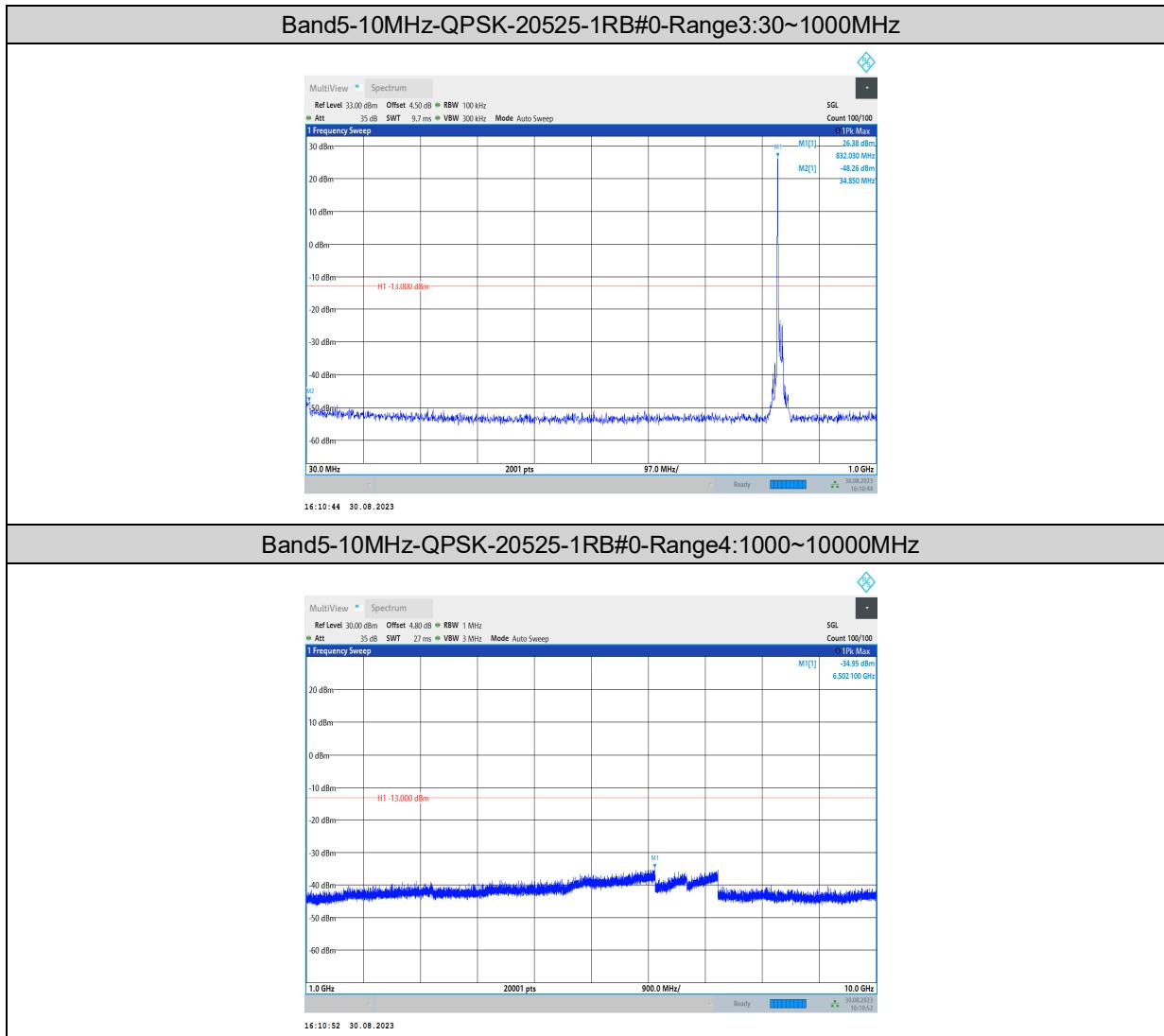
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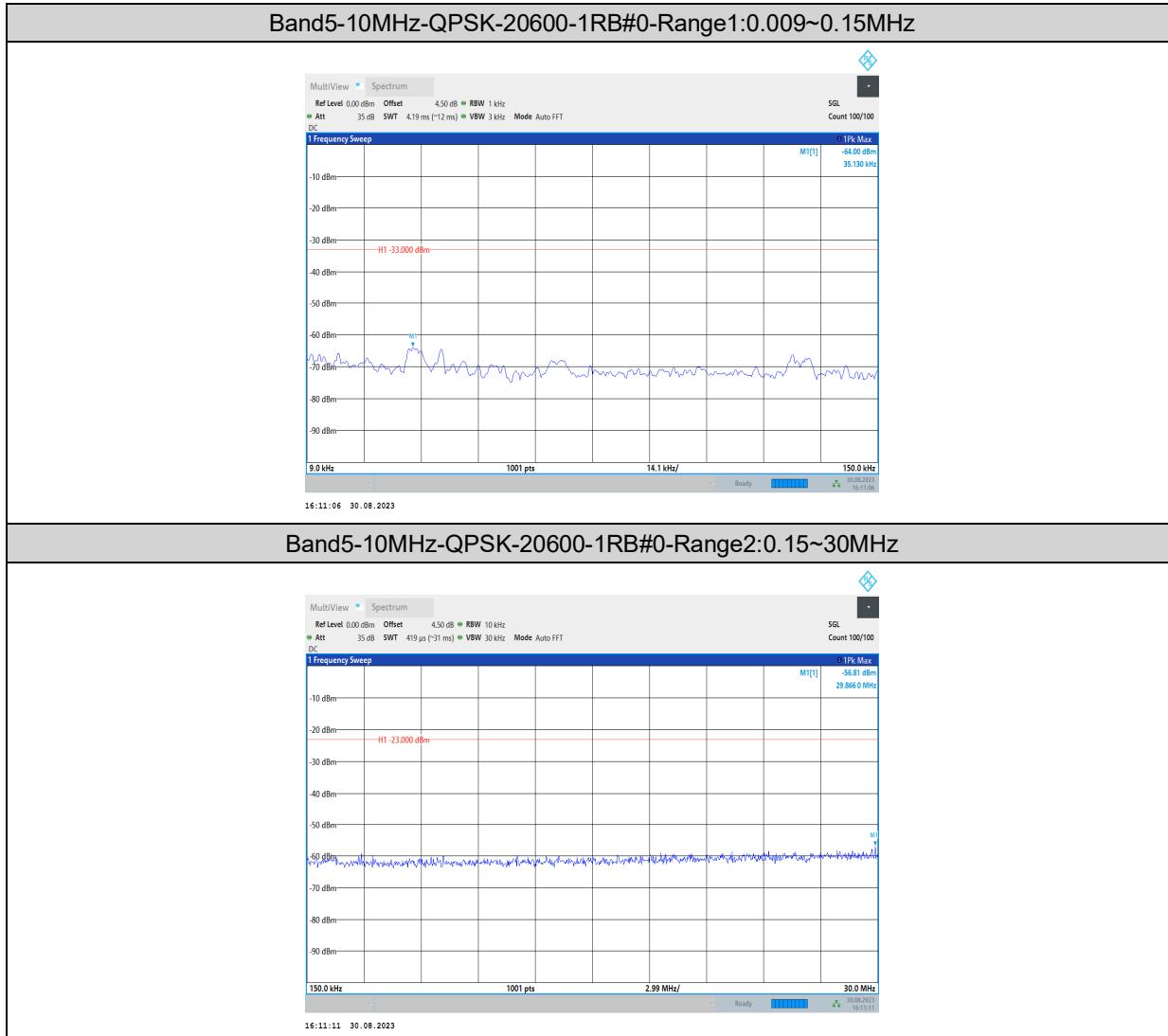
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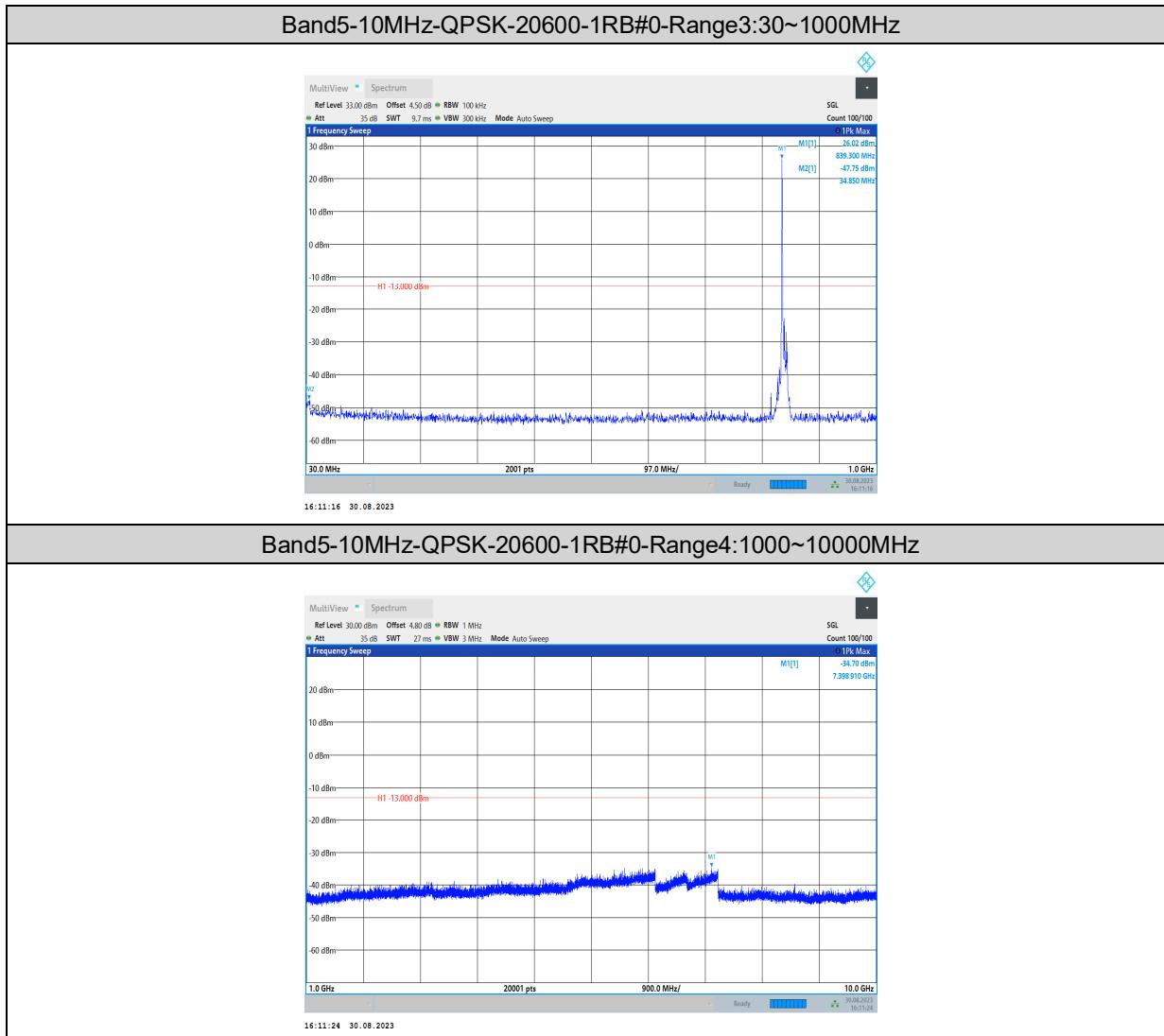
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Field Strength of Spurious Radiation**Test Band = LTE Band5_10MHz_TM1****Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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 [dB μ V]	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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