



BUREAU VERITAS Test Report No.: PSZ-QSZ2504020109RF04
CONDUCTED SPURIOUS EMISSION

Test Result

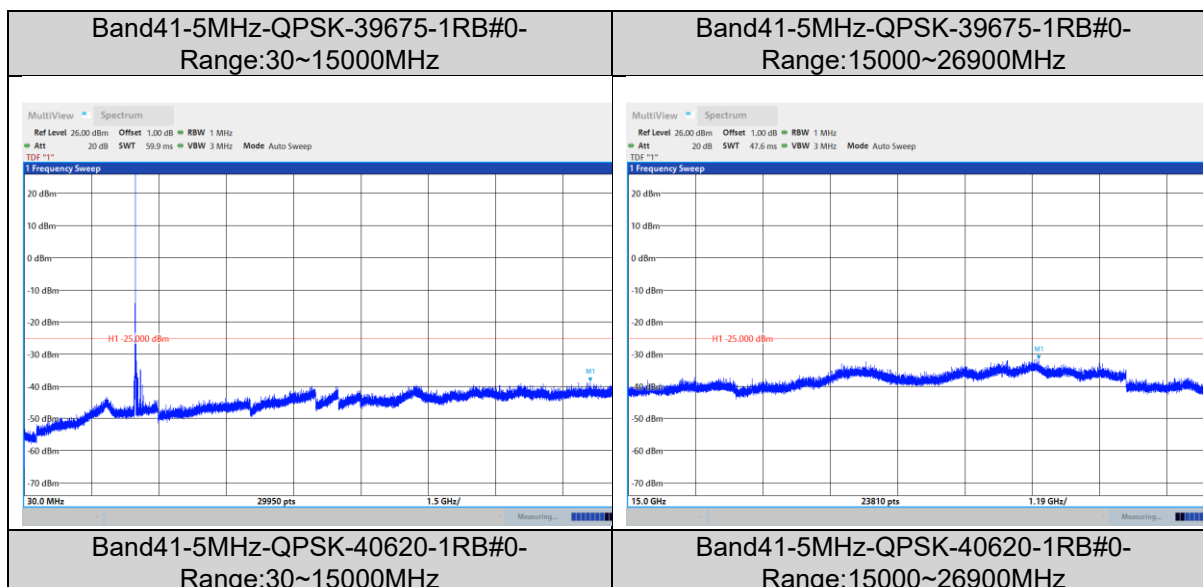
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4 1	5MHz	QPSK	39675	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	5MHz	QPSK	39675	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	5MHz	QPSK	40620	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	5MHz	QPSK	40620	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	5MHz	QPSK	41565	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	5MHz	QPSK	41565	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	10MHz	QPSK	39700	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	10MHz	QPSK	39700	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	10MHz	QPSK	40620	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	10MHz	QPSK	40620	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	10MHz	QPSK	41540	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	10MHz	QPSK	41540	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	15MHz	QPSK	39725	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	15MHz	QPSK	39725	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	15MHz	QPSK	40620	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	15MHz	QPSK	40620	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4	15MHz	QPSK	41515	1RB#0	Range:30~15000MHz	See	PASS

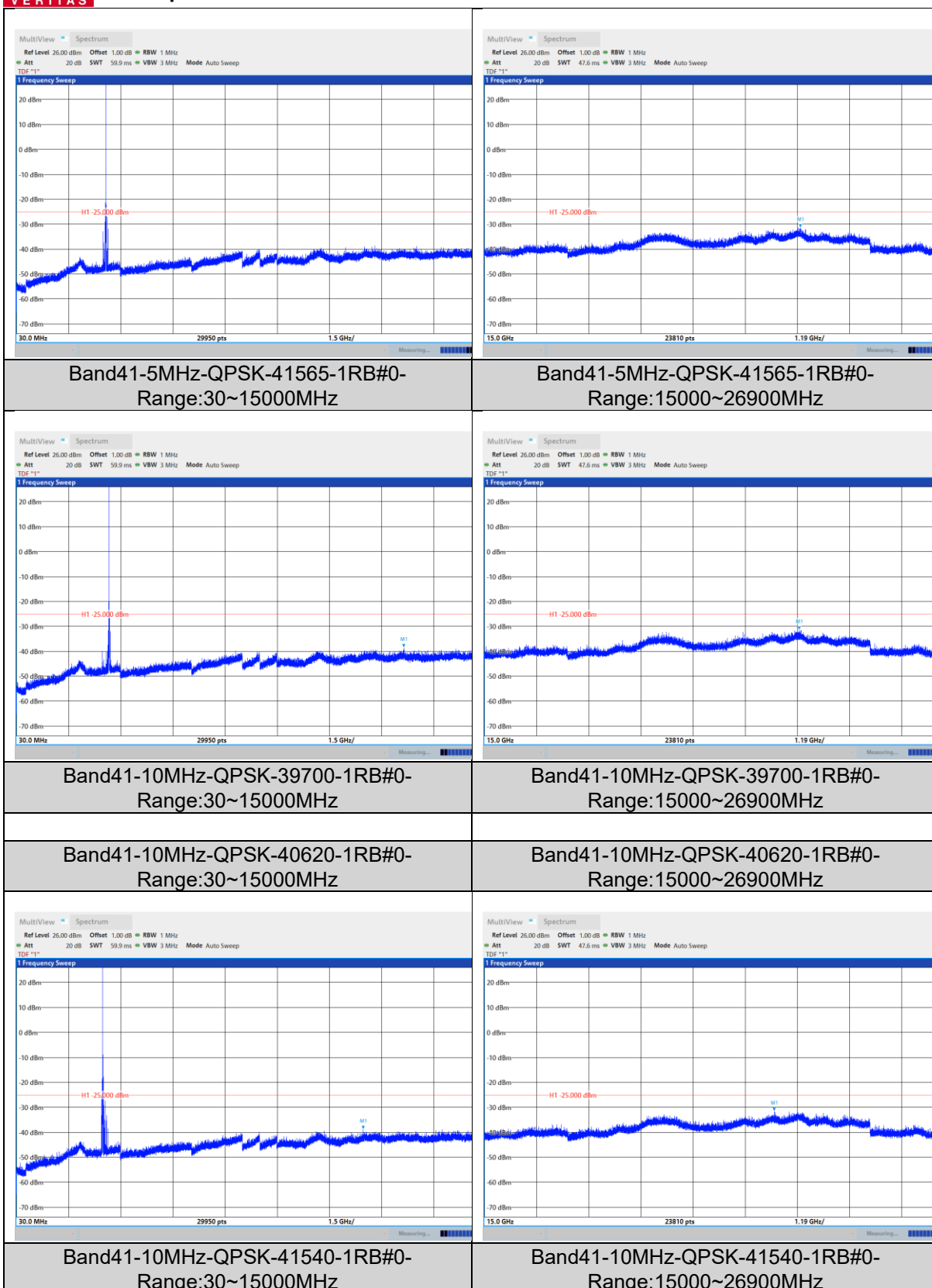


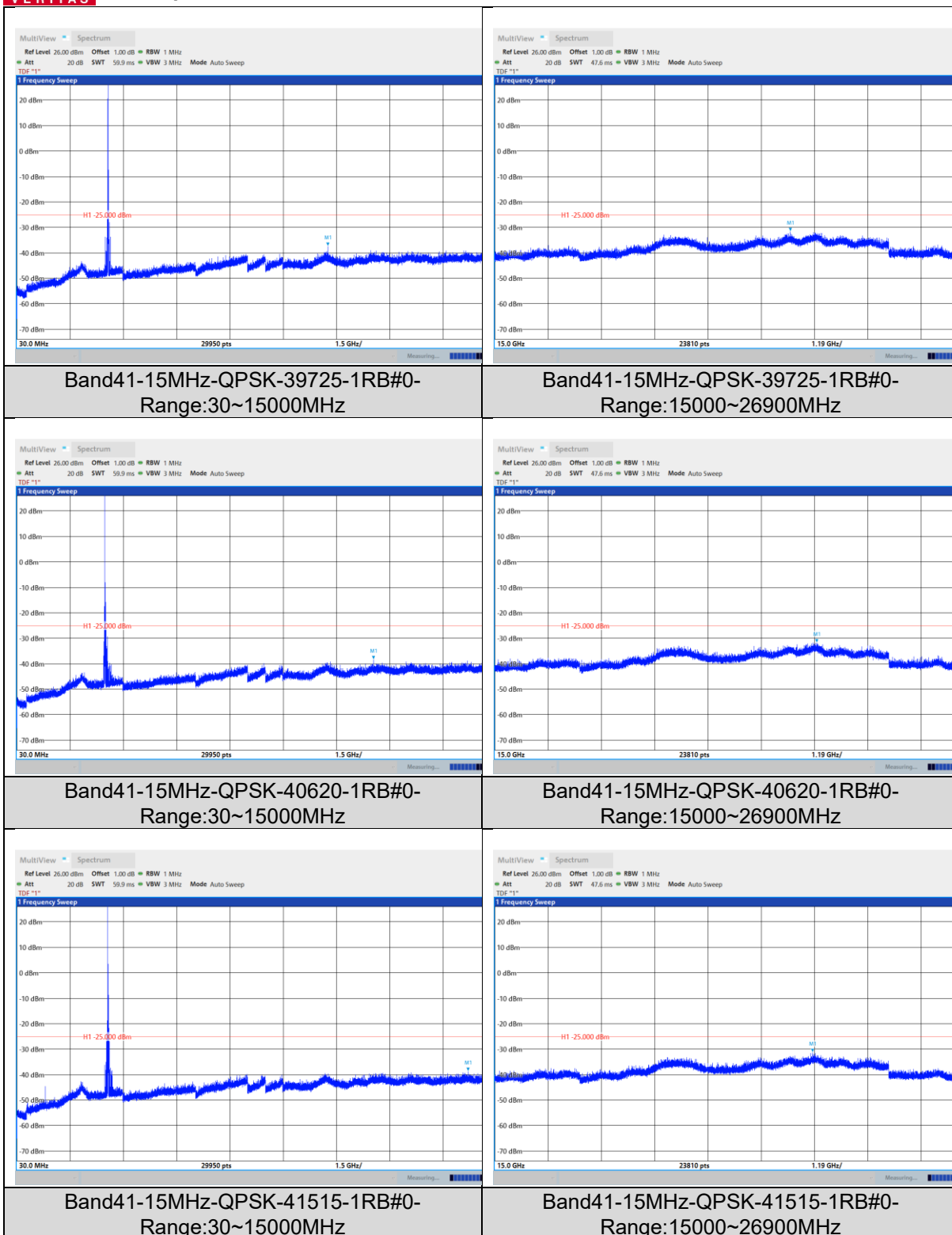
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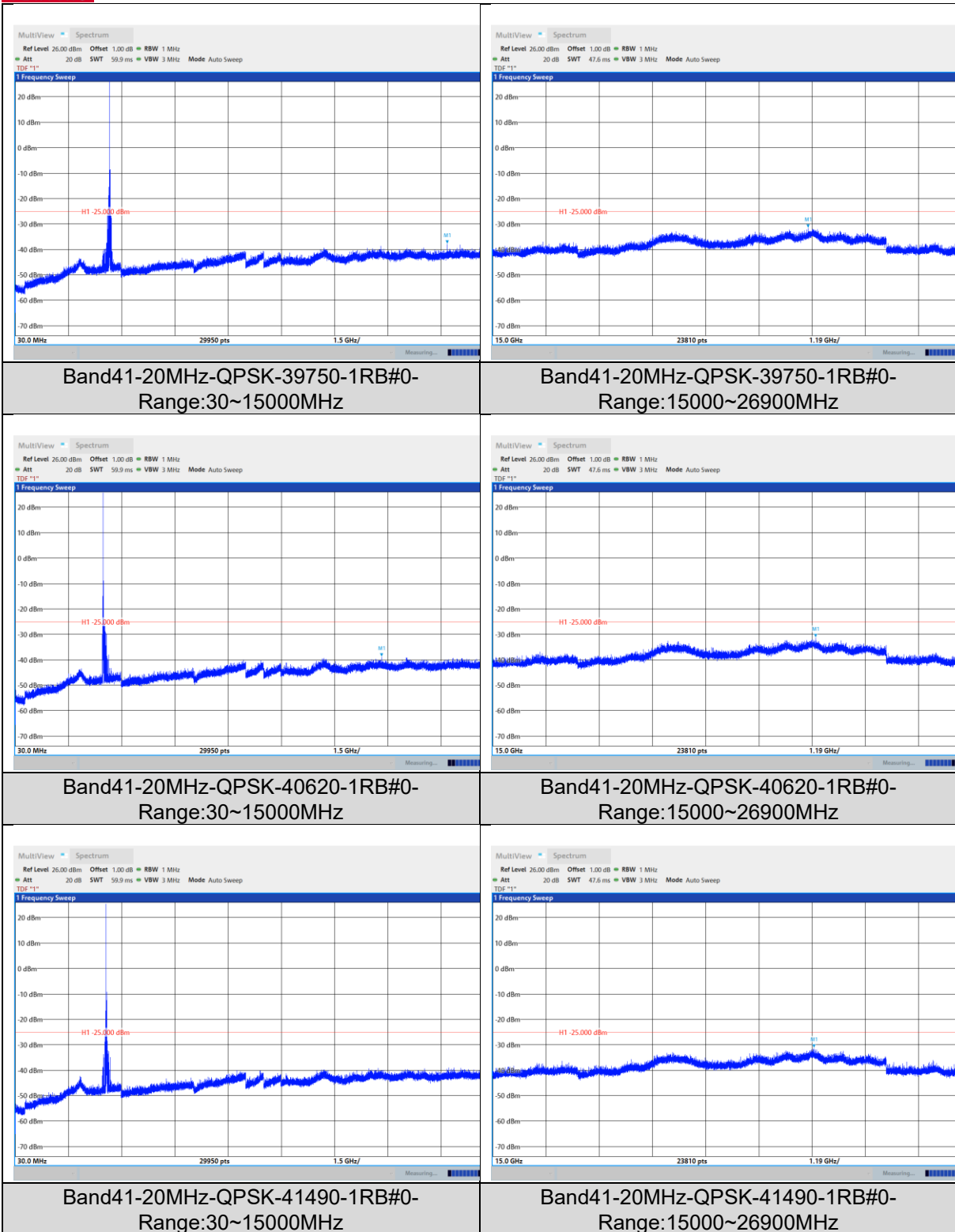
1						Graph	
Band4 1	15MHz	QPSK	41515	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	20MHz	QPSK	39750	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	20MHz	QPSK	39750	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	20MHz	QPSK	40620	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	20MHz	QPSK	40620	1RB#0	Range:15000~26900MHz	See Graph	PASS
Band4 1	20MHz	QPSK	41490	1RB#0	Range:30~15000MHz	See Graph	PASS
Band4 1	20MHz	QPSK	41490	1RB#0	Range:15000~26900MHz	See Graph	PASS

Test Graphs



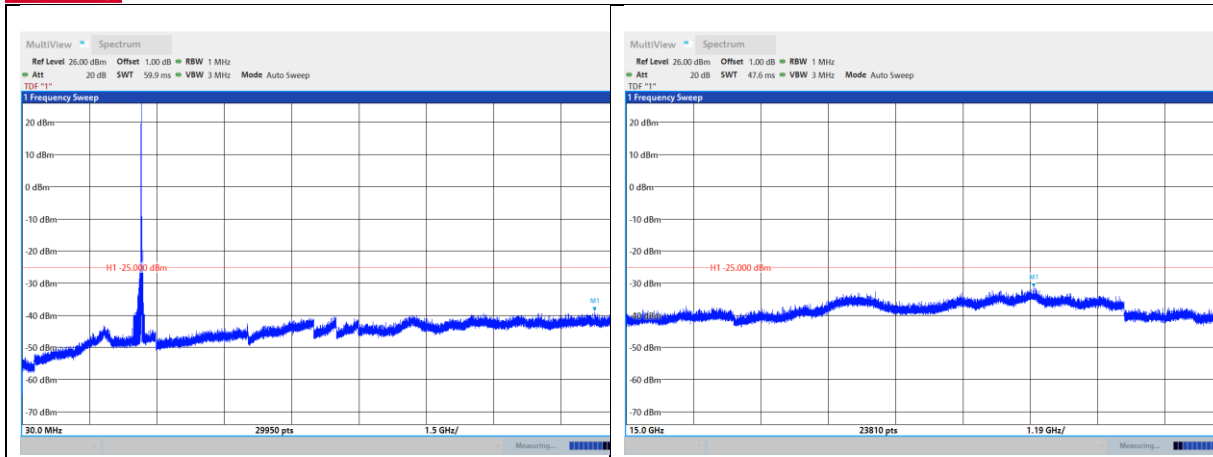








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FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4_1	20MHz	QPSK	39750	100RB#0	LV	NT	32.53	0.0130	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	NT	-16.26	-0.0065	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	HV	NT	15.37	0.0061	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	LV	NT	-1.34	-0.0005	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	NV	NT	-18.09	-0.0070	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	HV	NT	13.26	0.0051	±2.5	PASS
Band4_1	20MHz	QPSK	41490	100RB#0	LV	NT	-11.06	-0.0041	±2.5	PASS
Band4_1	20MHz	QPSK	41490	100RB#0	NV	NT	18.08	0.0067	±2.5	PASS
Band4_1	20MHz	QPSK	41490	100RB#0	HV	NT	-12.76	-0.0048	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4_1	20MHz	QPSK	39750	100RB#0	NV	-30	33.21	0.0133	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	-20	-22.23	-0.0089	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	-10	4.28	0.0017	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	0	8.91	0.0036	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	10	30.11	0.0120	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	20	34.99	0.0140	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	30	15.52	0.0062	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	40	32.71	0.0131	±2.5	PASS
Band4_1	20MHz	QPSK	39750	100RB#0	NV	50	34.86	0.0139	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	NV	-30	24.61	0.0095	±2.5	PASS
Band4_1	20MHz	QPSK	40620	100RB#0	NV	-20	4.83	0.0019	±2.5	PASS



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Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	-10	-6.28	- 0.0024	±2.5	PAS S
Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	0	-0.38	- 0.0001	±2.5	PAS S
Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	10	-10.34	- 0.0040	±2.5	PAS S
Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	20	22.73	0.0088	±2.5	PAS S
Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	30	1.13	0.0004	±2.5	PAS S
Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	40	33.96	0.0131	±2.5	PAS S
Band4 1	20MHz	QPSK	4062 0	100RB #0	NV	50	1.71	0.0007	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	-30	-5.40	- 0.0020	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	-20	-10.42	- 0.0039	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	-10	-20.74	- 0.0077	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	0	2.69	0.0010	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	10	5.75	0.0021	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	20	22.51	0.0084	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	30	-17.89	- 0.0067	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	40	3.75	0.0014	±2.5	PAS S
Band4 1	20MHz	QPSK	4149 0	100RB #0	NV	50	7.27	0.0027	±2.5	PAS S

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L - \text{MAX}(\Delta f) $	2497.054965	≥ 2496	PASS
$f_H + \text{MAX}(\Delta f) $	2688.930035	≤ 2690	

- Note: 1. $|\text{MAX}(\Delta f)|$ = Max Deviation
 2. f_L = Occ low channel f_L (-13dBm/MHz)
 3. f_H = Occ High channel f_H (-13dBm/MHz)
 4. $|\text{MAX}(\Delta f)|$ = 34.99Hz.



LTE BAND66(INCLUDING LTE B4)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

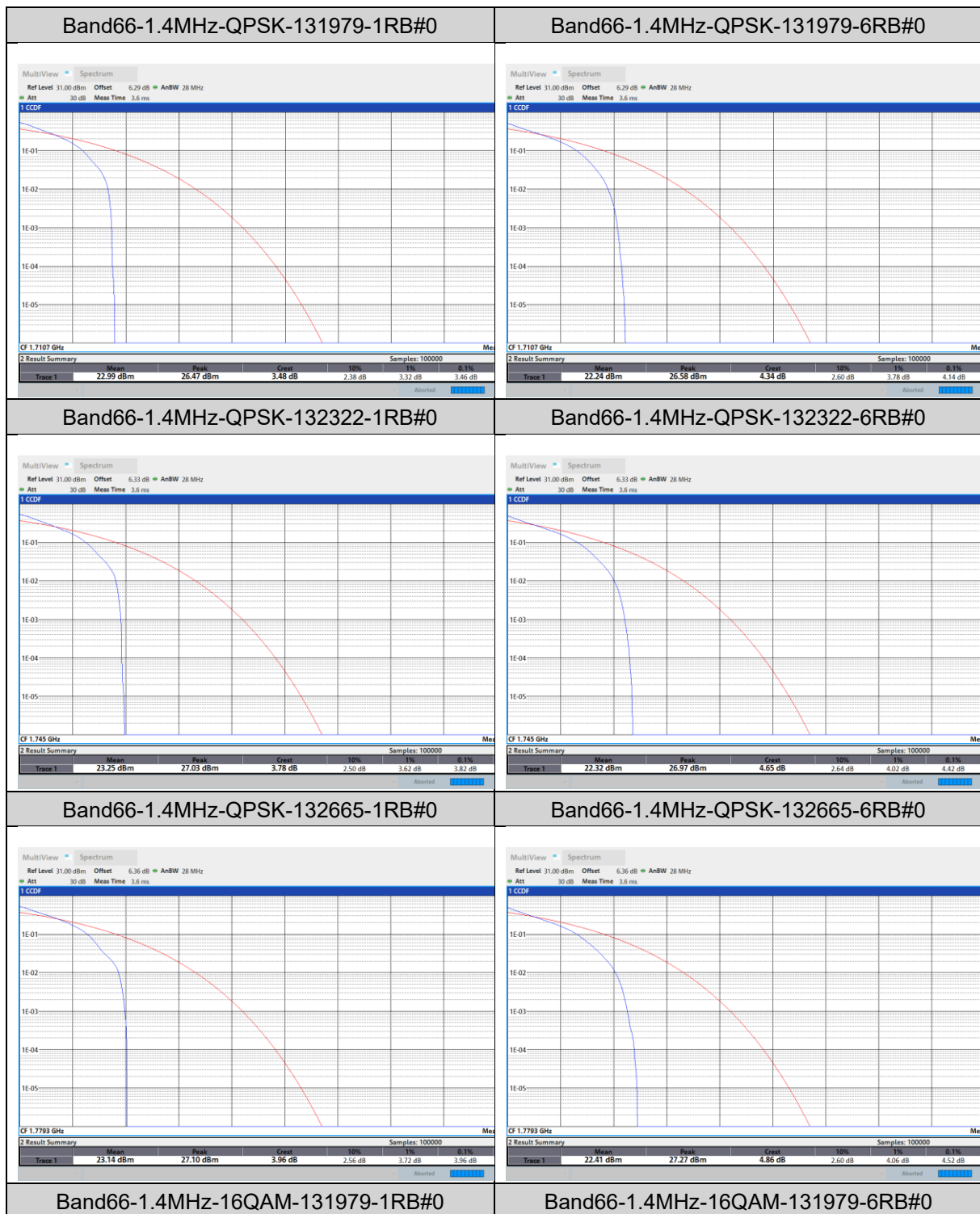
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	3.46	13	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	4.14	13	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	3.82	13	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	4.42	13	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	3.96	13	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	4.52	13	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	4.18	13	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	5.02	13	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	4.72	13	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	5.24	13	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	4.88	13	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	5.38	13	PASS
Band66	3MHz	QPSK	131987	1RB#0	3.48	13	PASS
Band66	3MHz	QPSK	131987	15RB#0	4.16	13	PASS
Band66	3MHz	QPSK	132322	1RB#0	3.92	13	PASS
Band66	3MHz	QPSK	132322	15RB#0	4.52	13	PASS
Band66	3MHz	QPSK	132657	1RB#0	4.04	13	PASS
Band66	3MHz	QPSK	132657	15RB#0	4.64	13	PASS
Band66	3MHz	16QAM	131987	1RB#0	4.32	13	PASS
Band66	3MHz	16QAM	131987	15RB#0	5.16	13	PASS
Band66	3MHz	16QAM	132322	1RB#0	4.34	13	PASS
Band66	3MHz	16QAM	132322	15RB#0	5.18	13	PASS
Band66	3MHz	16QAM	132657	1RB#0	4.92	13	PASS
Band66	3MHz	16QAM	132657	15RB#0	5.42	13	PASS
Band66	5MHz	QPSK	131997	1RB#0	3.56	13	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.32	13	PASS
Band66	5MHz	QPSK	132322	1RB#0	3.56	13	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.40	13	PASS
Band66	5MHz	QPSK	132647	1RB#0	3.92	13	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.50	13	PASS
Band66	5MHz	16QAM	131997	1RB#0	4.22	13	PASS
Band66	5MHz	16QAM	131997	25RB#0	5.22	13	PASS
Band66	5MHz	16QAM	132322	1RB#0	4.24	13	PASS
Band66	5MHz	16QAM	132322	25RB#0	5.20	13	PASS
Band66	5MHz	16QAM	132647	1RB#0	4.82	13	PASS
Band66	5MHz	16QAM	132647	25RB#0	5.32	13	PASS
Band66	5MHz	64QAM	131997	1RB#0	3.56	13	PASS
Band66	10MHz	QPSK	132022	1RB#0	3.56	13	PASS
Band66	10MHz	QPSK	132022	50RB#0	4.32	13	PASS
Band66	10MHz	QPSK	132322	1RB#0	3.56	13	PASS
Band66	10MHz	QPSK	132322	50RB#0	4.40	13	PASS
Band66	10MHz	QPSK	132622	1RB#0	3.92	13	PASS
Band66	10MHz	QPSK	132622	50RB#0	4.50	13	PASS
Band66	10MHz	16QAM	132022	1RB#0	4.22	13	PASS
Band66	10MHz	16QAM	132022	50RB#0	5.22	13	PASS
Band66	10MHz	16QAM	132322	1RB#0	4.24	13	PASS



Band66	10MHz	16QAM	132322	50RB#0	5.20	13	PASS
Band66	10MHz	16QAM	132622	1RB#0	4.82	13	PASS
Band66	10MHz	16QAM	132622	50RB#0	5.32	13	PASS
Band66	15MHz	QPSK	132047	1RB#0	3.56	13	PASS
Band66	15MHz	QPSK	132047	75RB#0	4.58	13	PASS
Band66	15MHz	QPSK	132322	1RB#0	3.58	13	PASS
Band66	15MHz	QPSK	132322	75RB#0	4.56	13	PASS
Band66	15MHz	QPSK	132597	1RB#0	4.06	13	PASS
Band66	15MHz	QPSK	132597	75RB#0	4.68	13	PASS
Band66	15MHz	16QAM	132047	1RB#0	4.20	13	PASS
Band66	15MHz	16QAM	132047	75RB#0	5.32	13	PASS
Band66	15MHz	16QAM	132322	1RB#0	4.38	13	PASS
Band66	15MHz	16QAM	132322	75RB#0	5.34	13	PASS
Band66	15MHz	16QAM	132597	1RB#0	4.80	13	PASS
Band66	15MHz	16QAM	132597	75RB#0	5.46	13	PASS
Band66	20MHz	QPSK	132072	1RB#0	3.64	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	4.54	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	3.58	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.46	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	3.96	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	4.72	13	PASS
Band66	20MHz	16QAM	132072	1RB#0	4.12	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.34	13	PASS
Band66	20MHz	16QAM	132322	1RB#0	4.50	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.38	13	PASS
Band66	20MHz	16QAM	132572	1RB#0	5.12	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.52	13	PASS

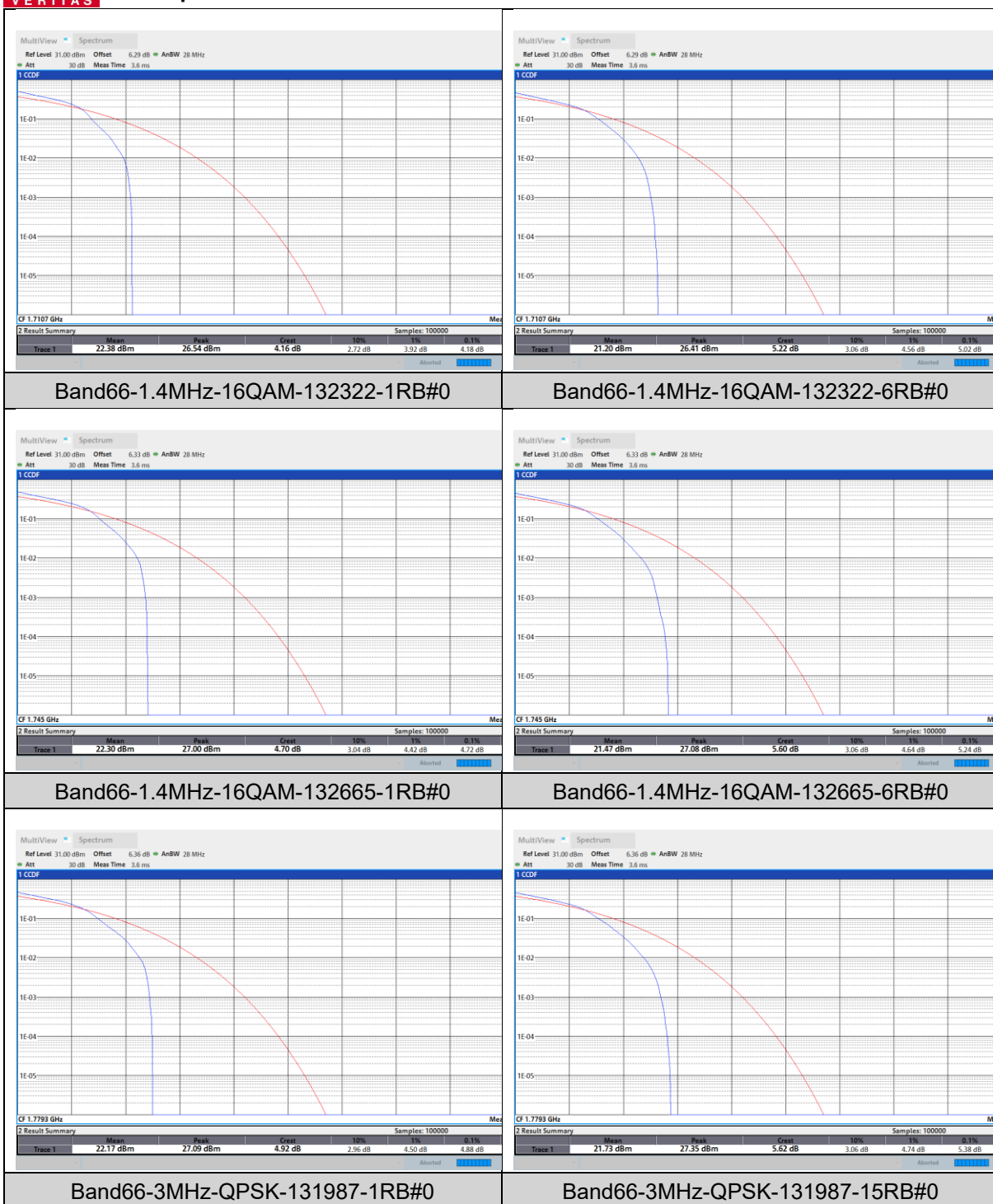


Test Graphs



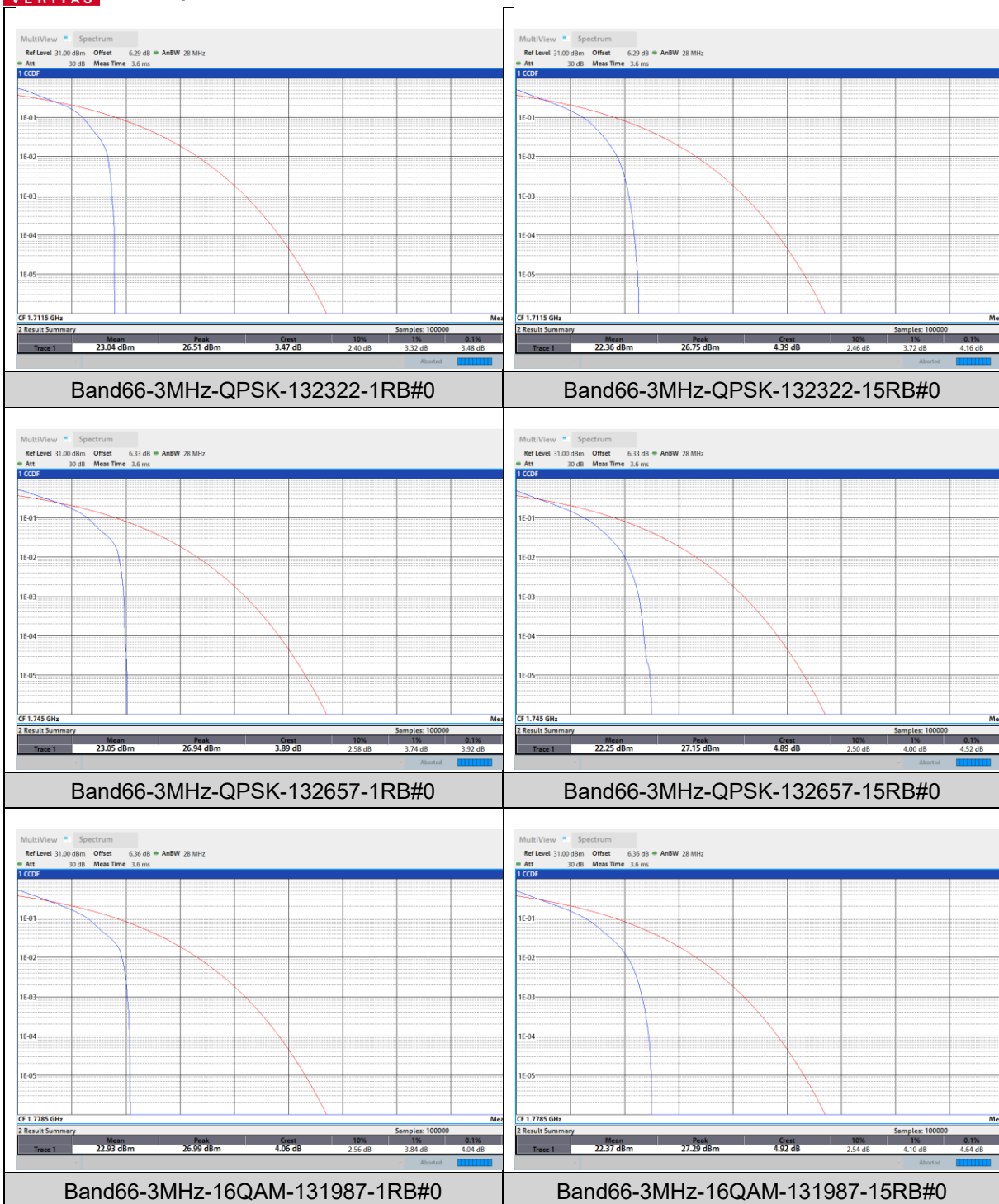


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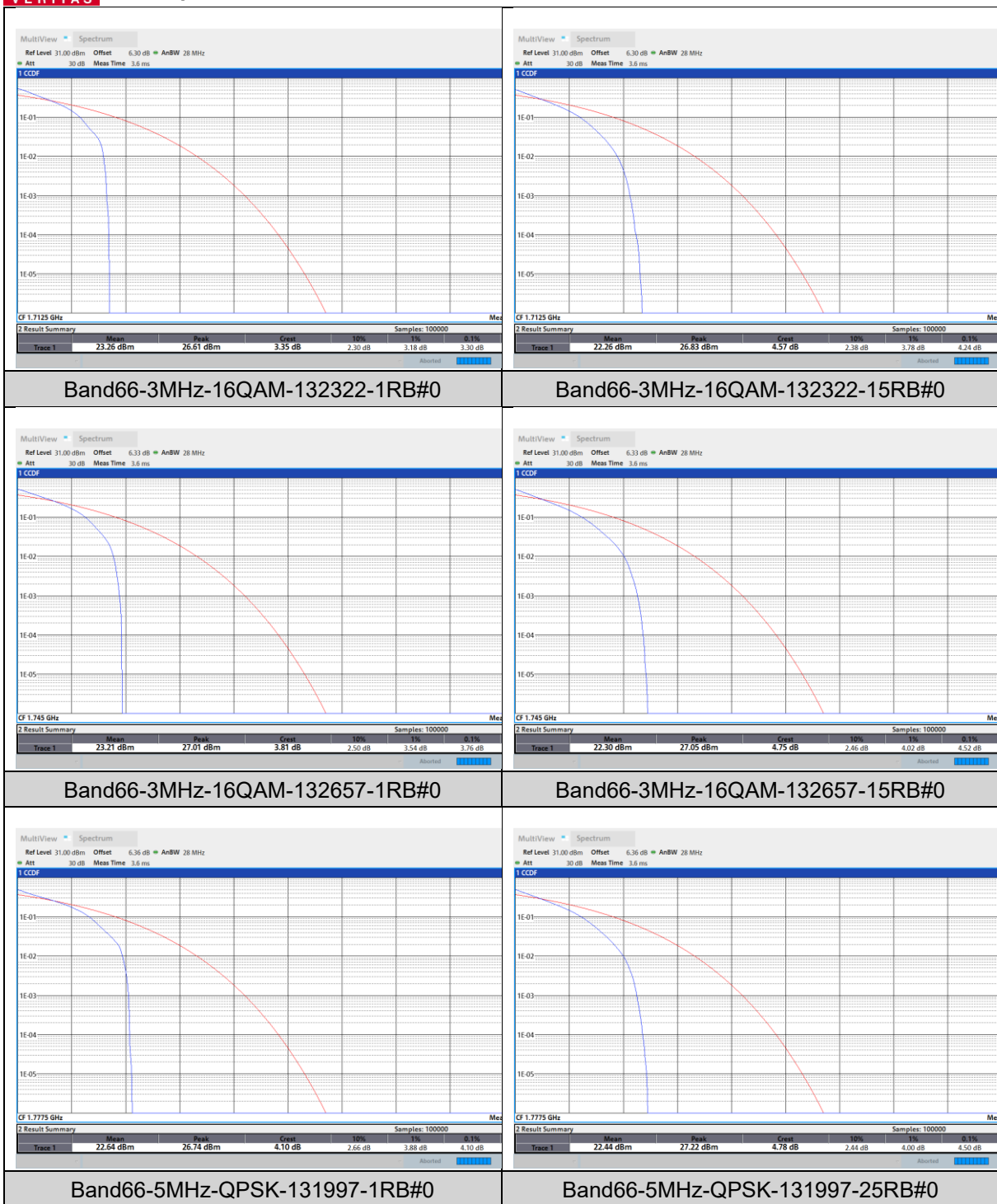


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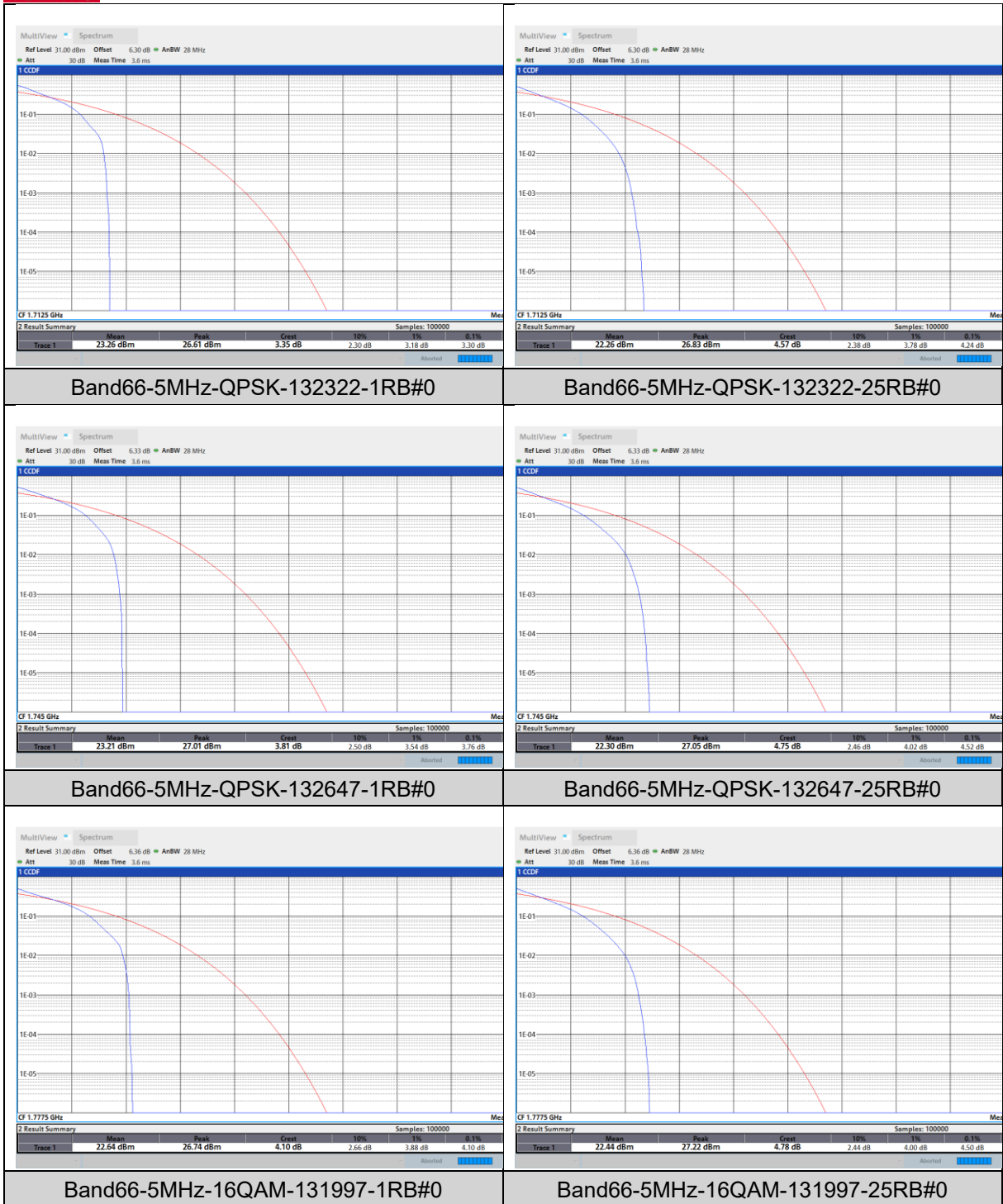


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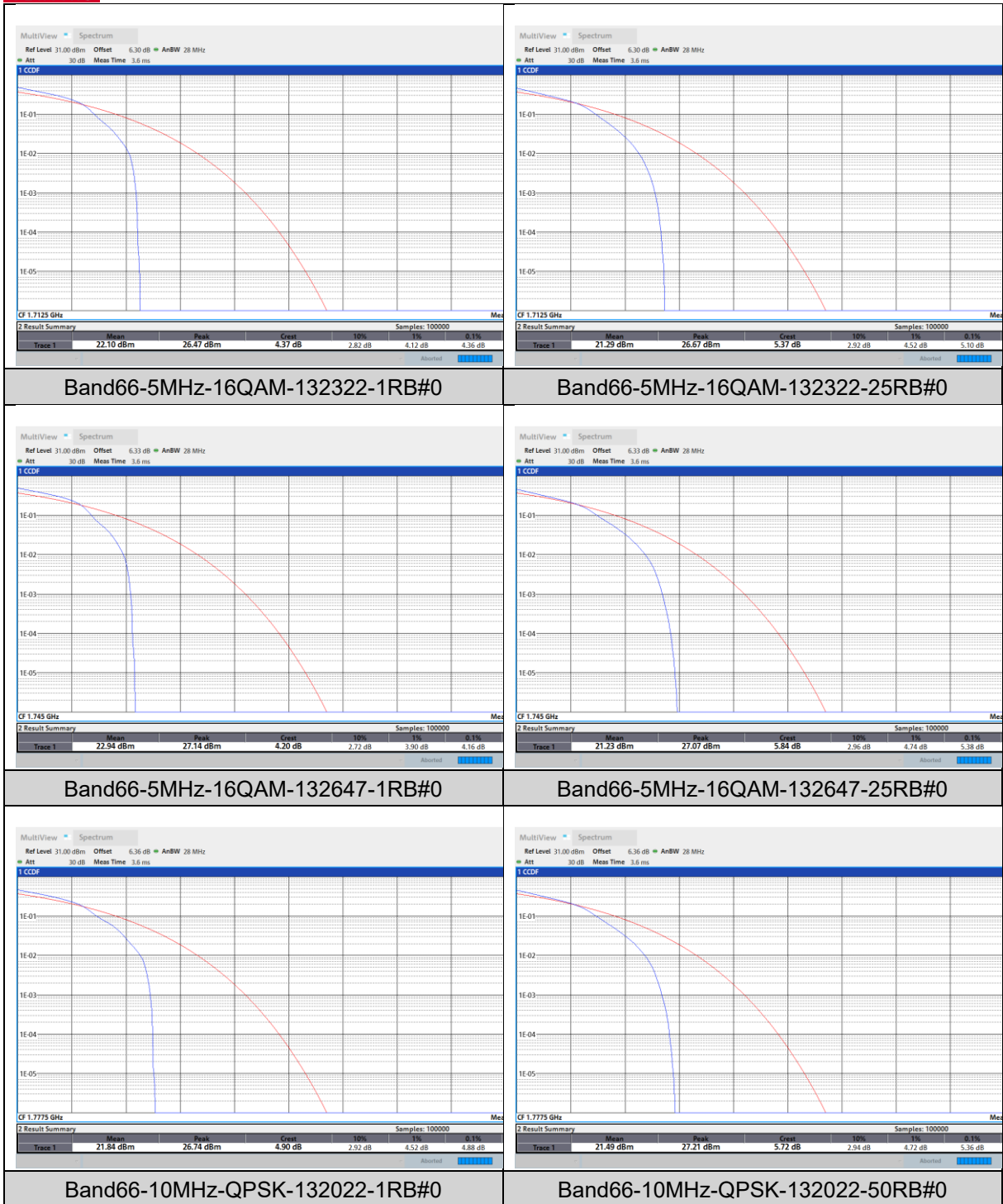


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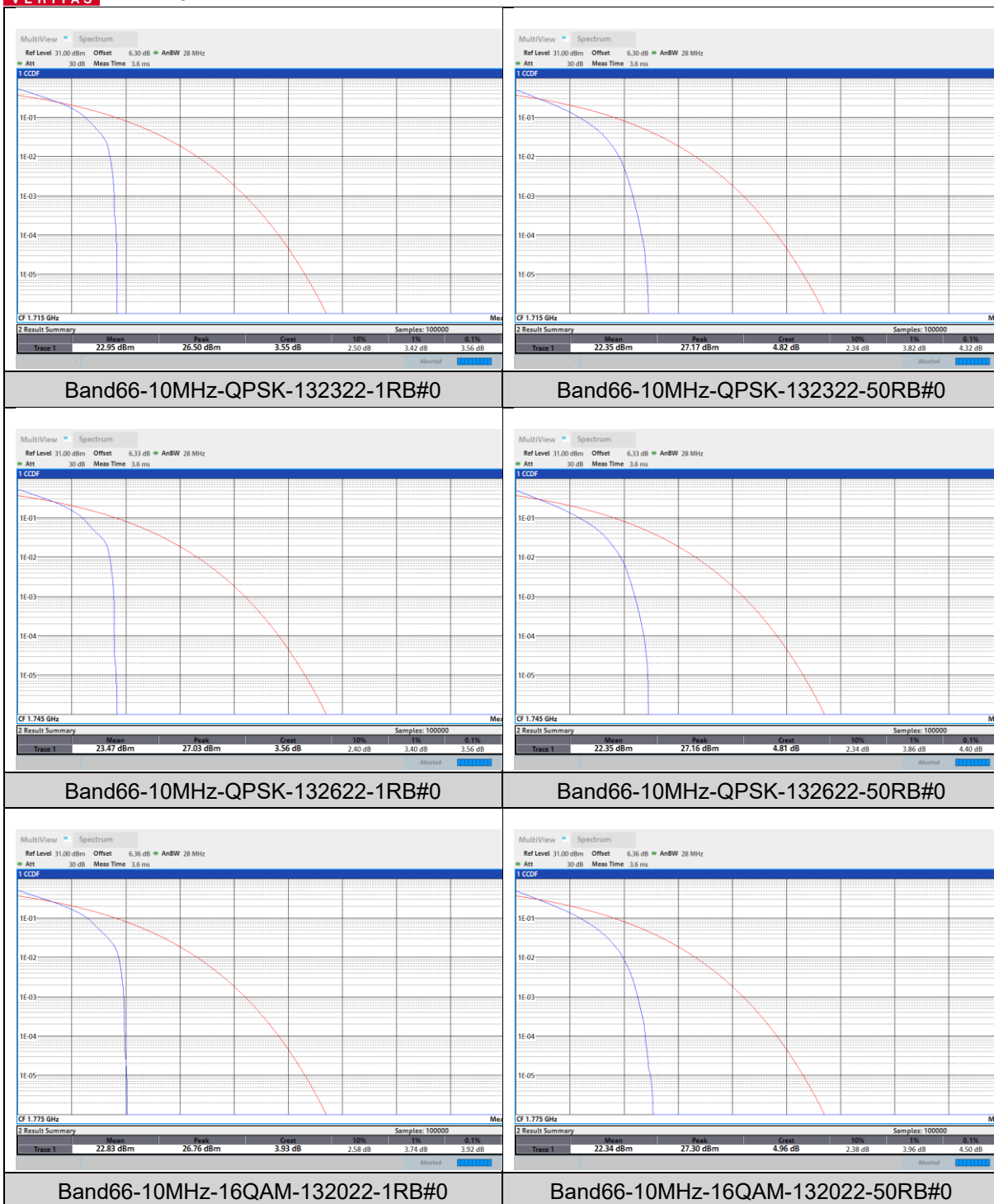


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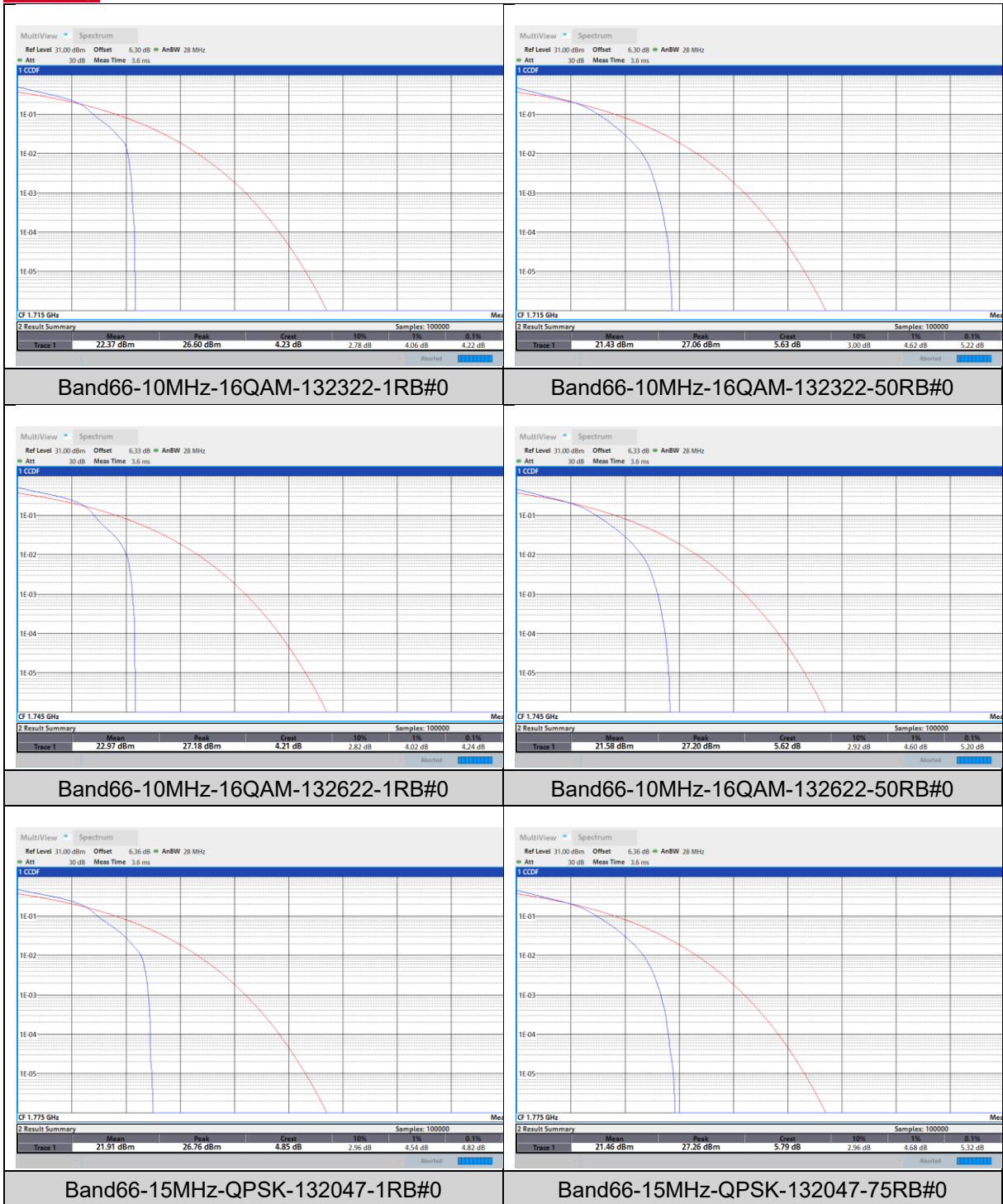


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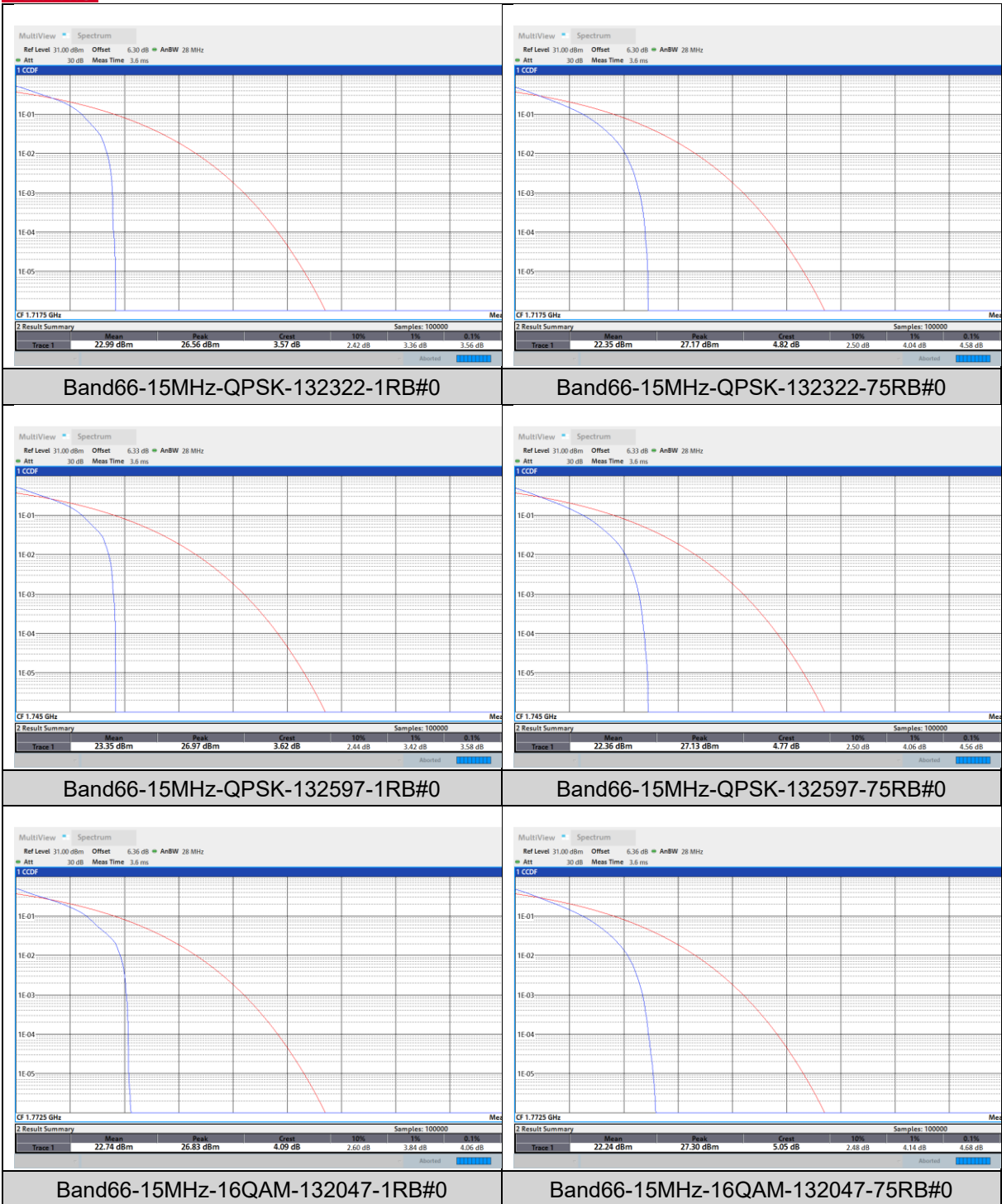


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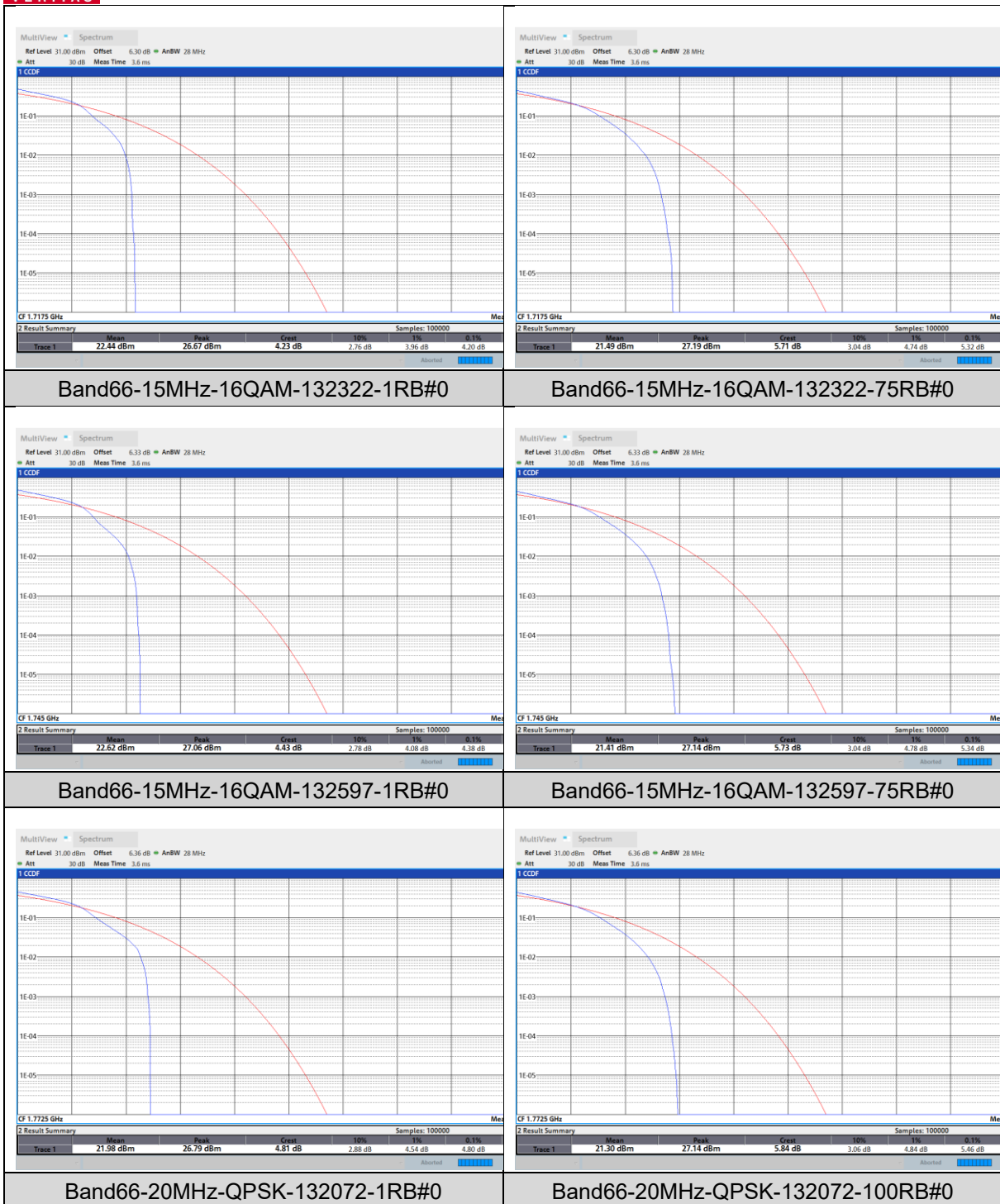


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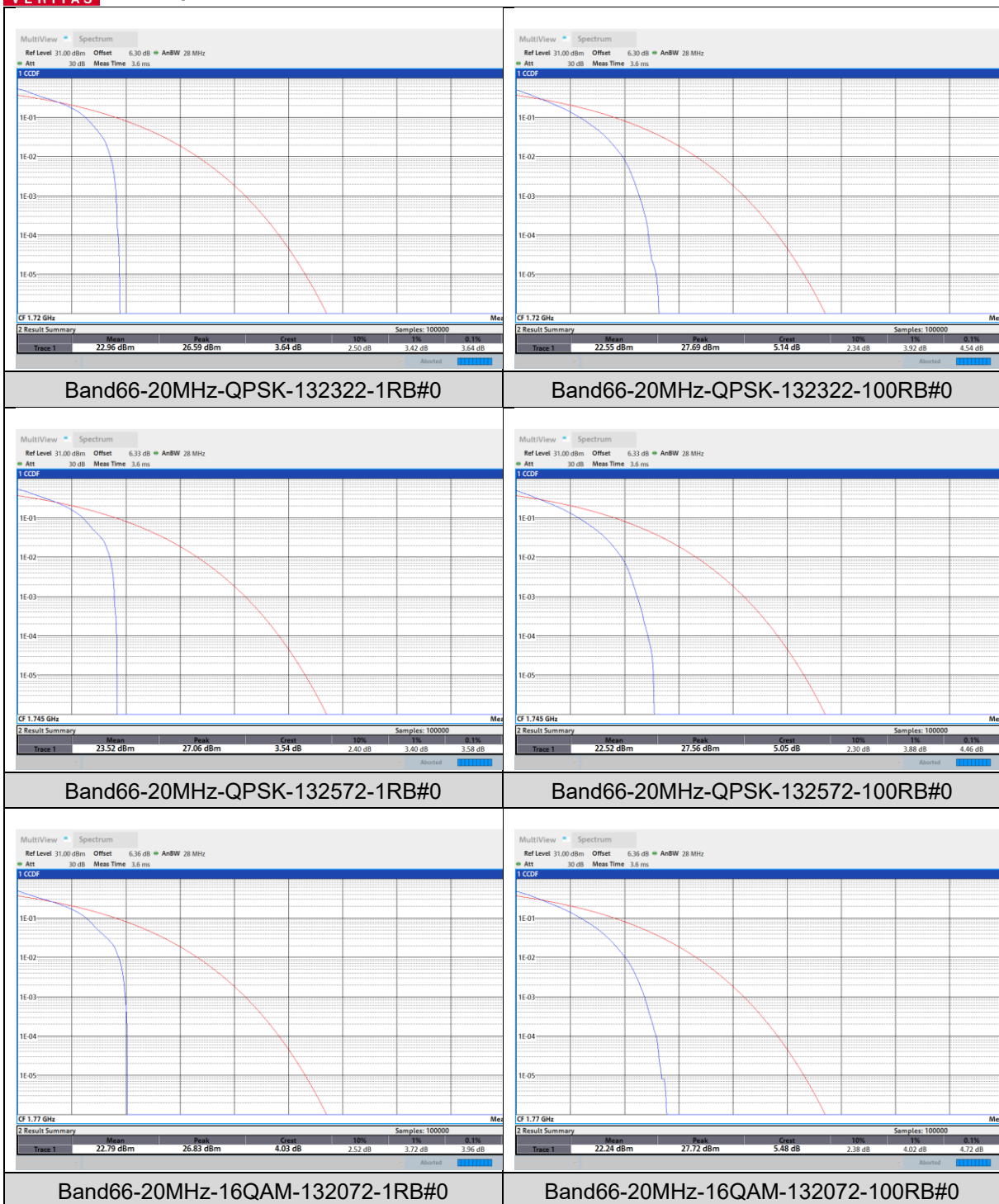


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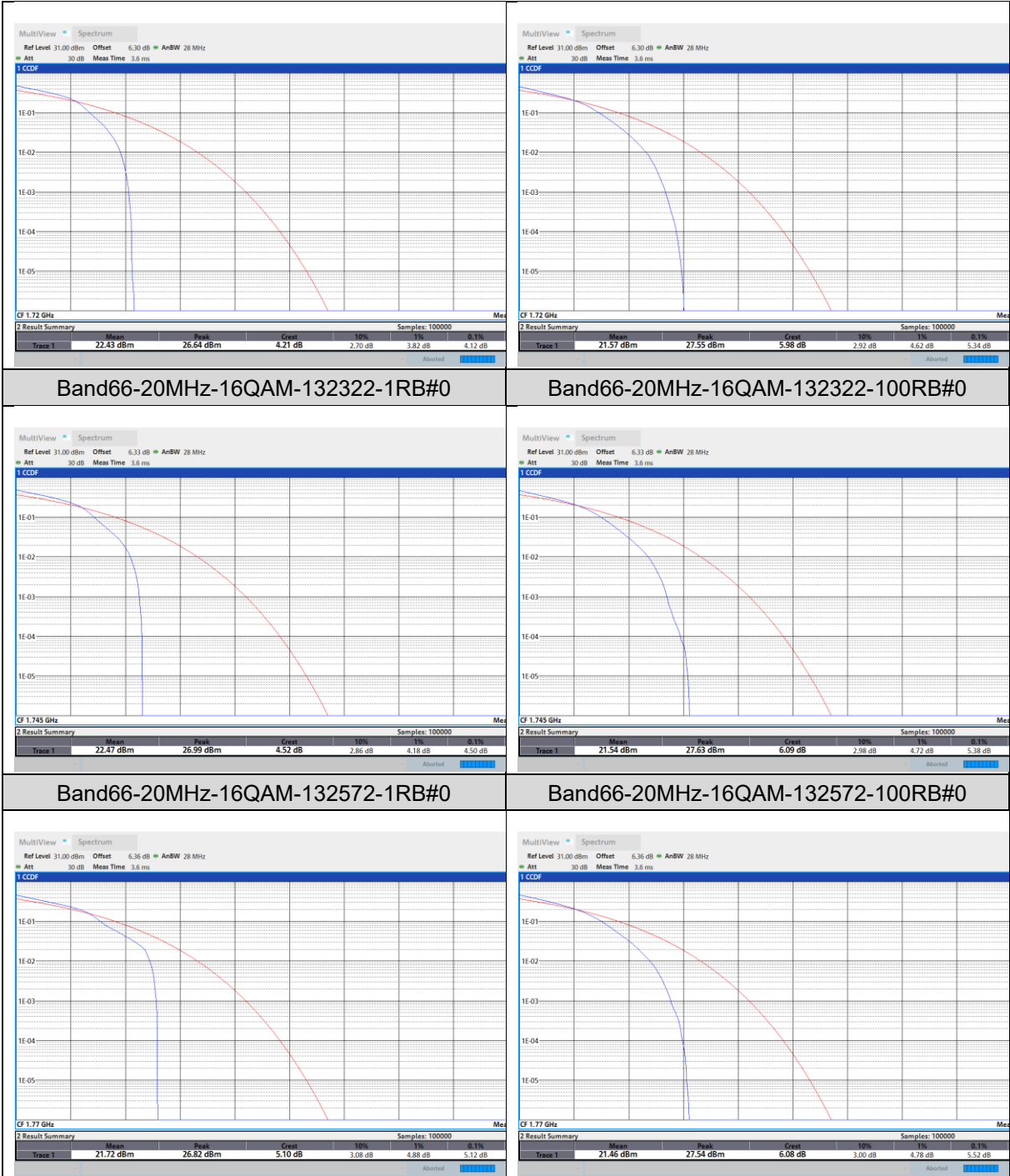


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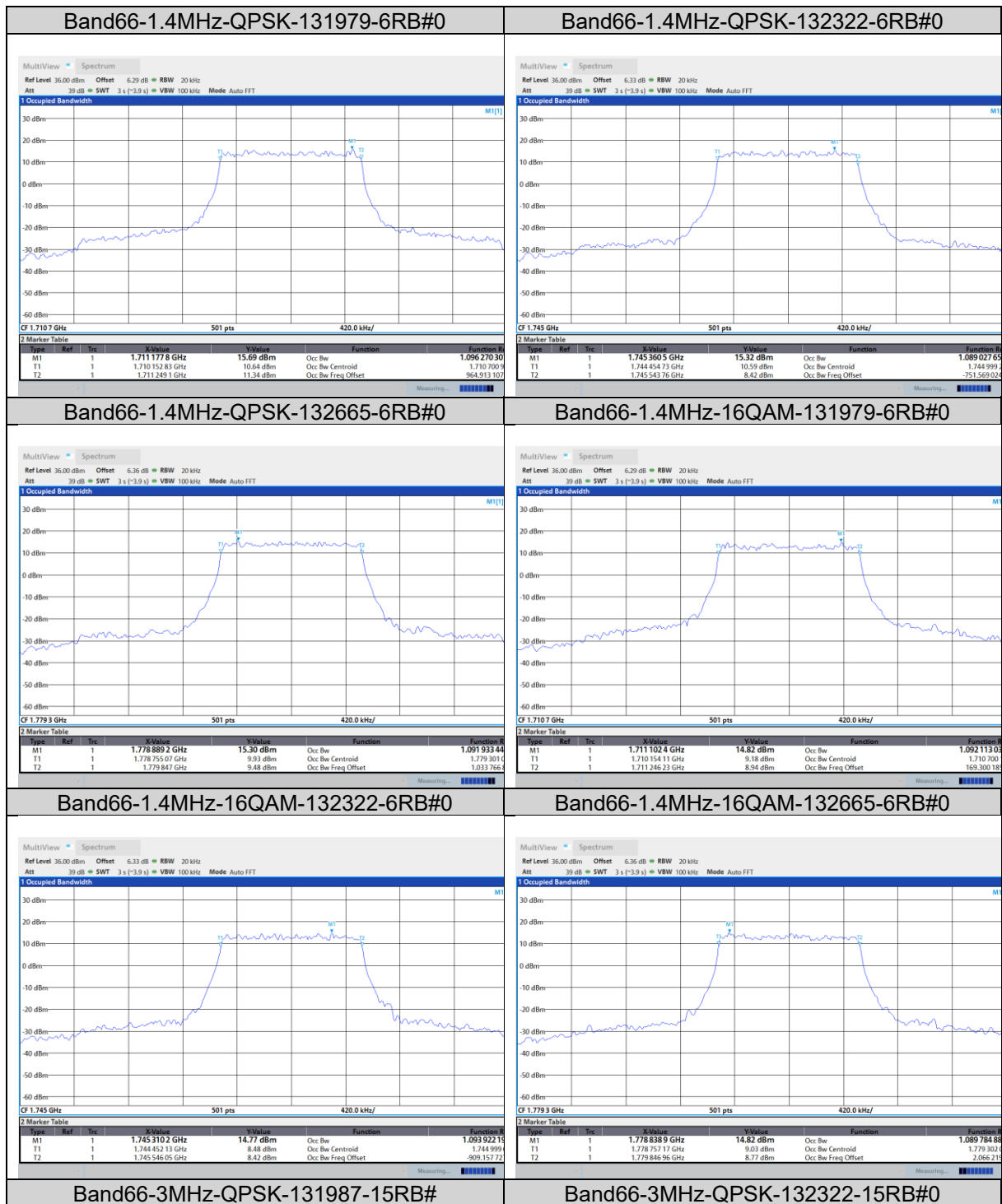
**26DB BANDWIDTH AND OCCUPIED BANDWIDTH****Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.096	1.29	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.089	1.27	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.092	1.28	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.092	1.28	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.094	1.27	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.090	1.29	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.697	2.93	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.698	2.92	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.694	2.95	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.694	2.94	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.691	2.96	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.688	2.94	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.497	4.88	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.484	4.90	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	4.87	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.474	4.84	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.491	4.90	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.482	4.95	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.953	9.74	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.947	9.68	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.950	9.68	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.949	9.65	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.951	9.68	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.950	9.65	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.471	14.65	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.398	14.52	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.429	14.61	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.443	14.56	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.446	14.56	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.440	14.52	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.884	19.06	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.868	19.0	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.896	19.24	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.908	19.18	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.881	19.24	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.846	19.121	PASS



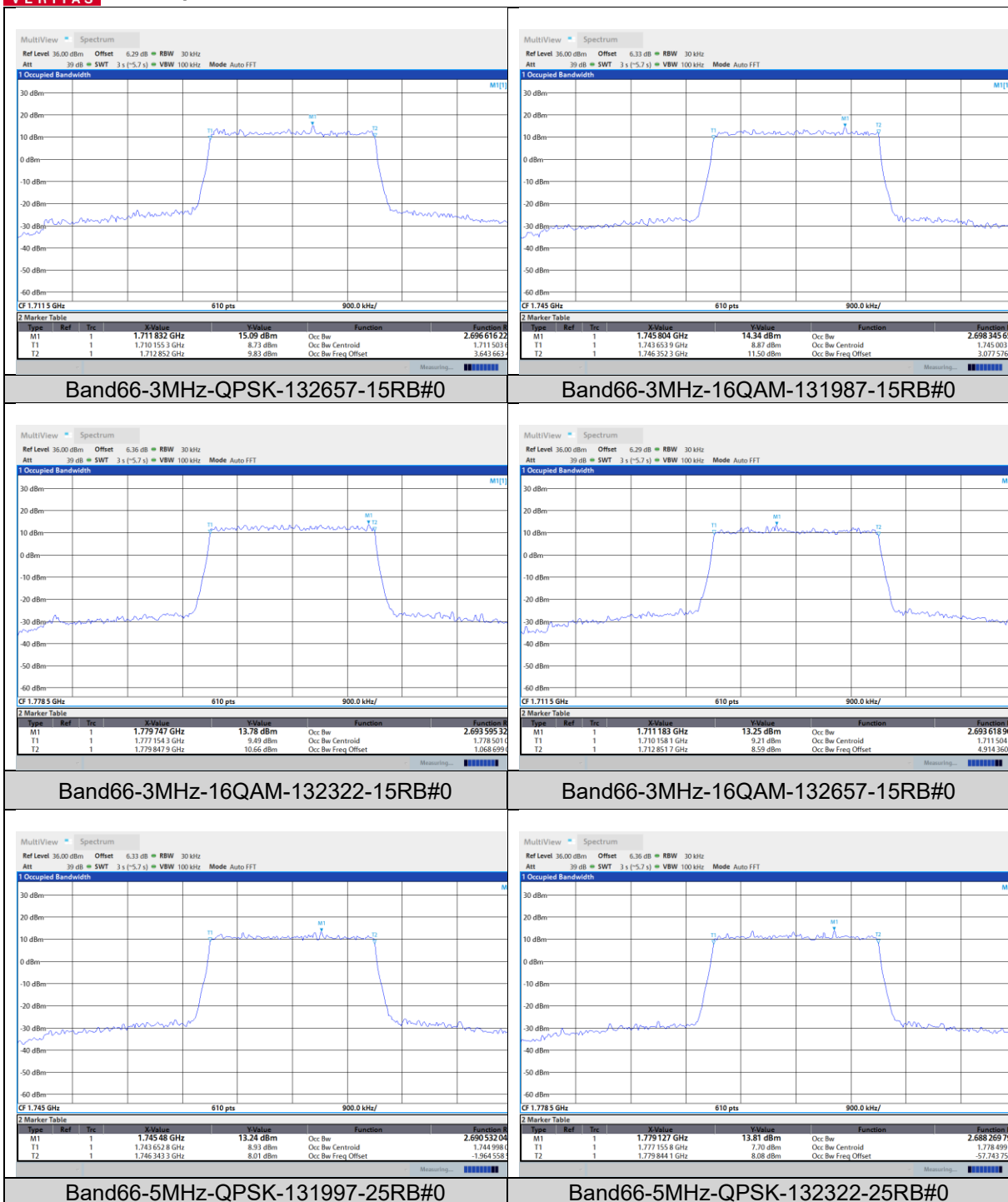
Test Graphs

Occupied Bandwidth





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