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# Appendix B.1

WCDMA Band II&IV&V



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## **Effective (Isotropic) Radiated Power Output Data**

#### **Test Result**

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	22.53	21.33	33	PASS
Band II	9400	22.48	21.28	33	PASS
Band II	9538	22.54	21.34	33	PASS
Band IV	1312	22.84	19.44	30	PASS
Band IV	1413	22.86	19.46	30	PASS
Band IV	1513	22.84	19.44	30	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	22.96	16.91	38.5	PASS
Band V	4182	22.86	16.81	38.5	PASS
Band V	4233	22.82	16.77	38.5	PASS



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## Peak-to-Average Ratio

#### **Test Result**

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.00	13	PASS
Band II	9400	3.02	13	PASS
Band II	9538	2.92	13	PASS
Band IV	1312	2.82	13	PASS
Band IV	1413	2.88	13	PASS
Band IV	1513	2.80	13	PASS
Band V	4132	3.02	13	PASS
Band V	4182	3.06	13	PASS
Band V	4233	2.92	13	PASS



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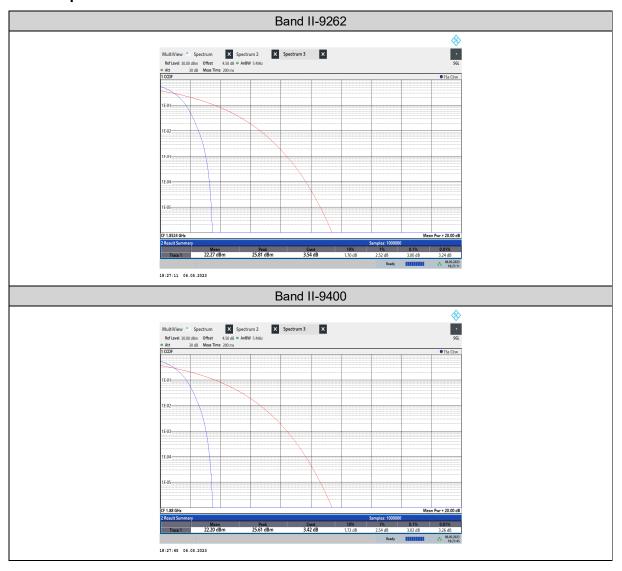
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## **Test Graphs**





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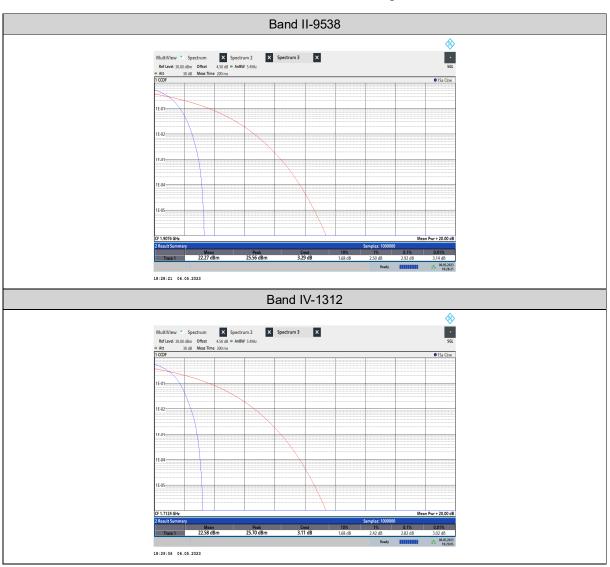
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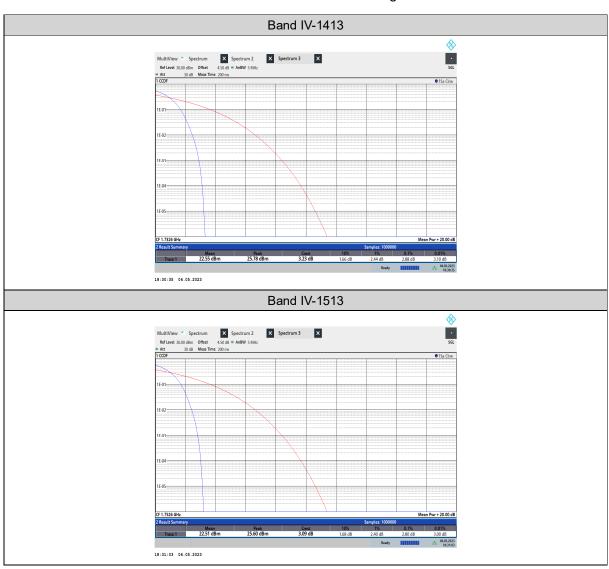
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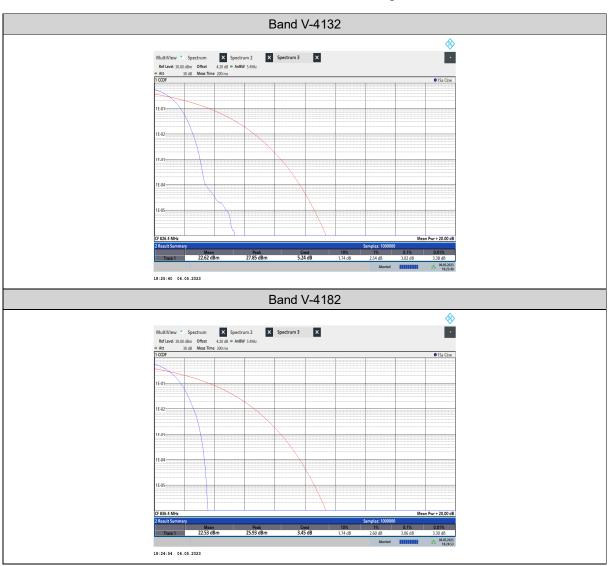
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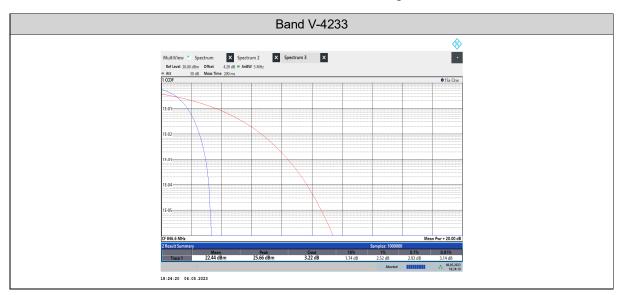
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#### **Modulation Characteristics**

#### **Test Result**

Band	Channel	Result	Verdict
Band II	9400	PASS	PASS
Band IV	1413	PASS	PASS
Band V	4182	PASS	PASS



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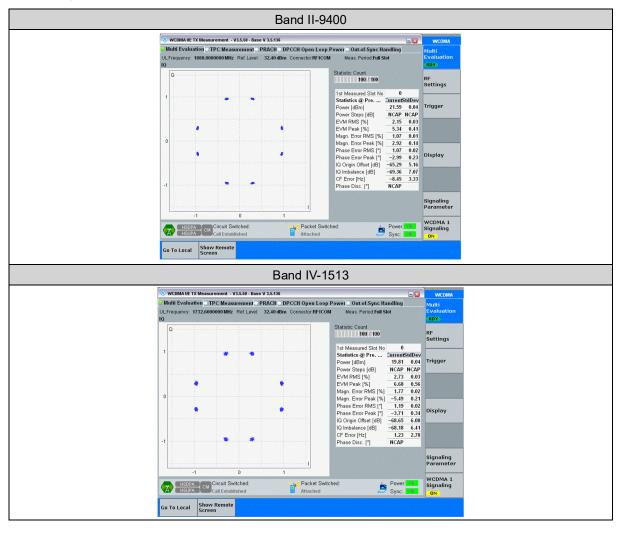




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## **Test Graphs**





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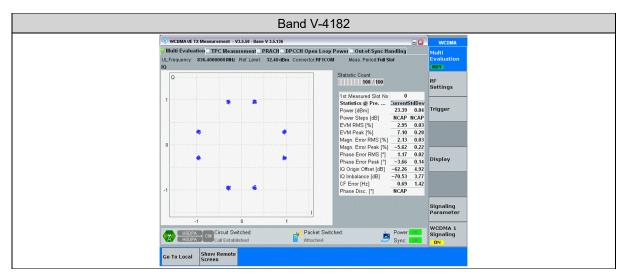
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# 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band II	9262	4.171	4.72		PASS
Band II	9400	4.171	4.74		PASS
Band II	9538	4.171	4.73		PASS
Band IV	1312	4.145	4.72		PASS
Band IV	1413	4.150	4.72		PASS
Band IV	1513	4.152	4.73		PASS
Band V	4132	4.148	4.70		PASS
Band V	4182	4.143	4.70		PASS
Band V	4233	4.147	4.71		PASS



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## **Test Graphs**





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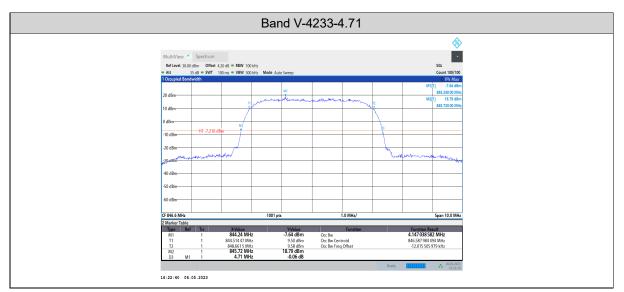
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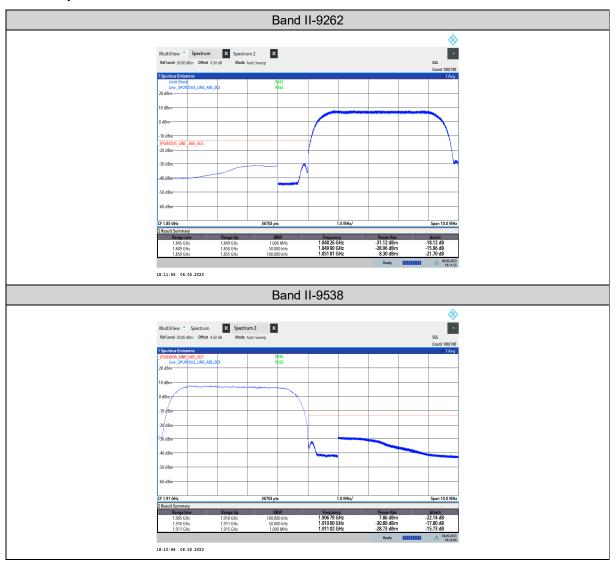


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# **Band Edge**

#### **Test Graphs**





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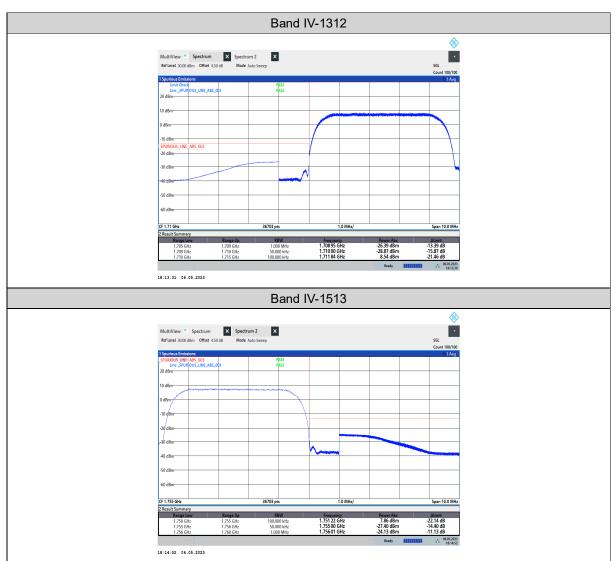
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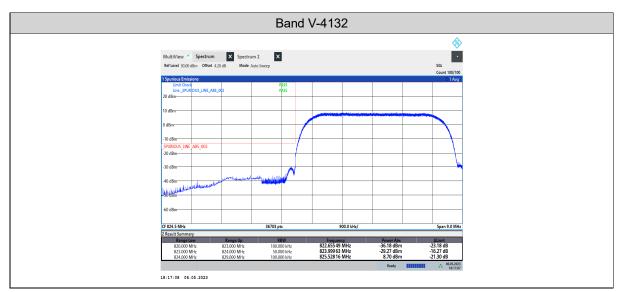
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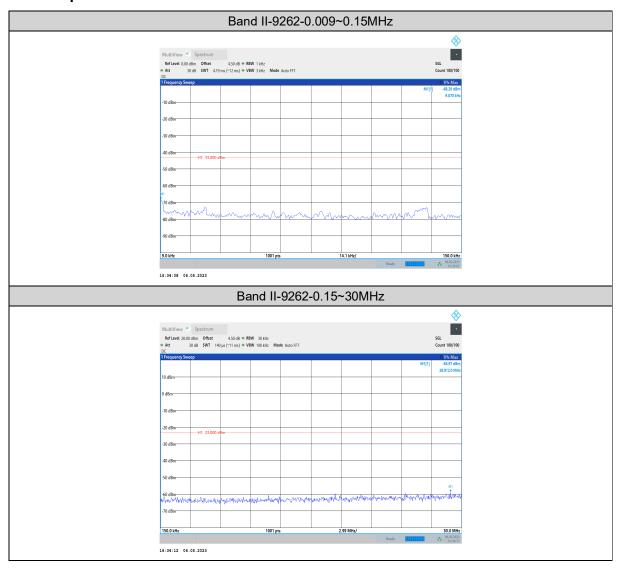


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# **Conducted Spurious Emission**

#### **Test Graphs**





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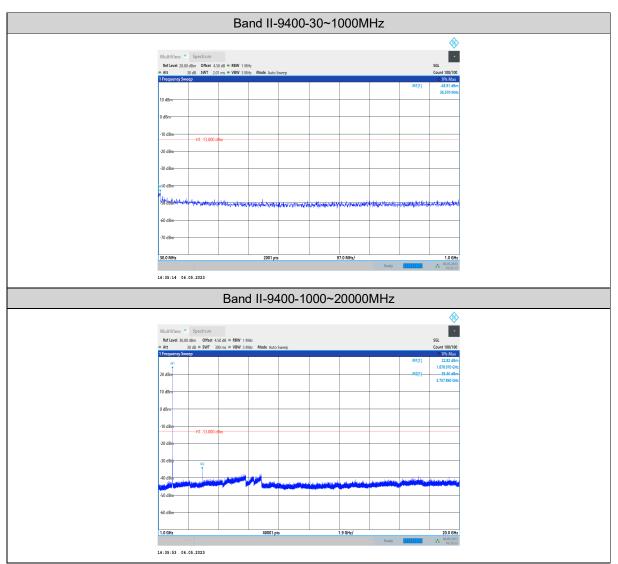
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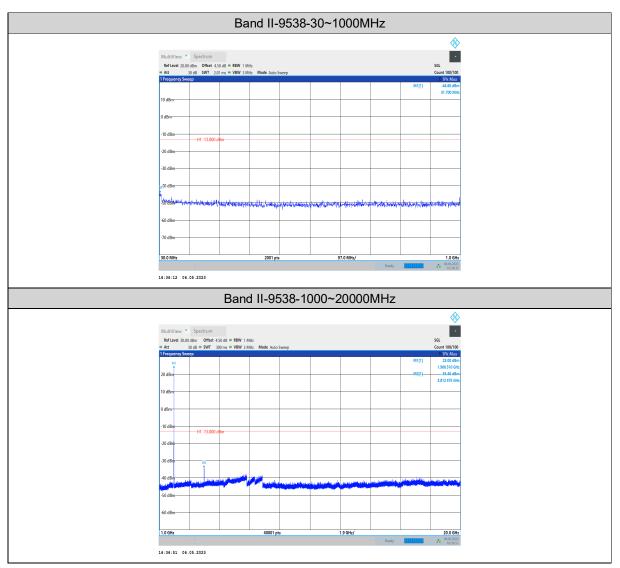
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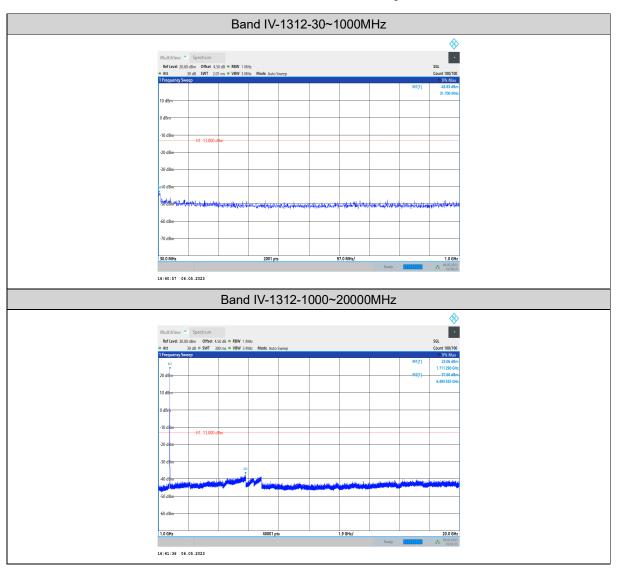
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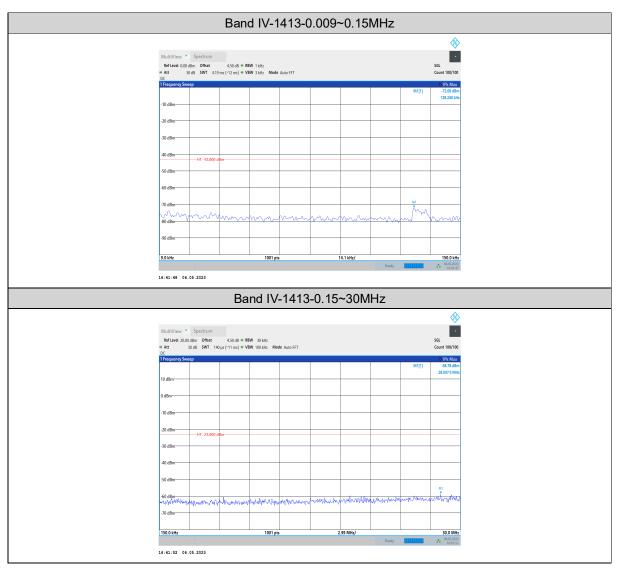
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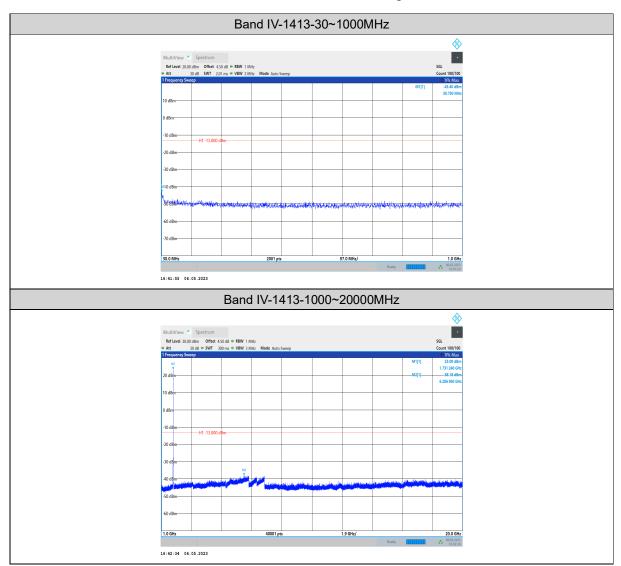
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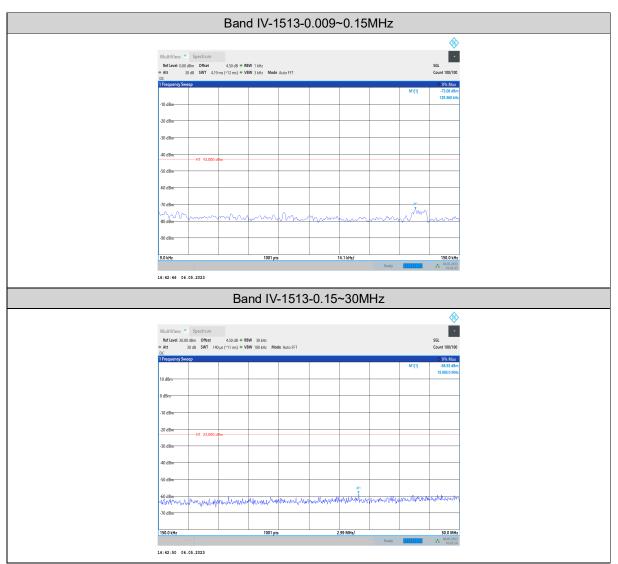
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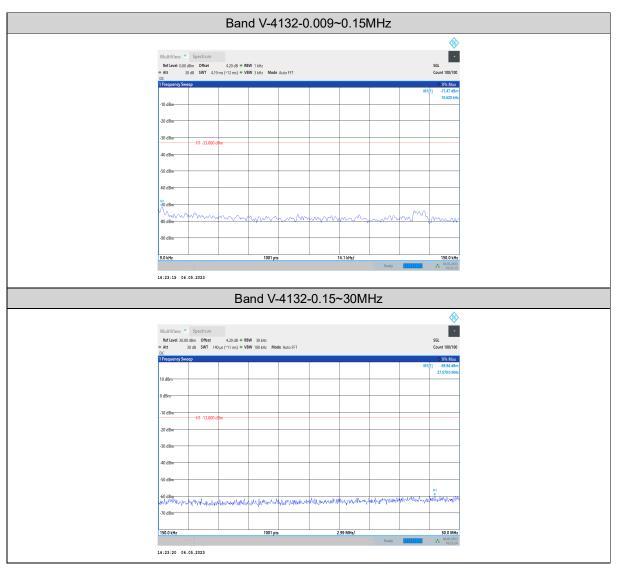
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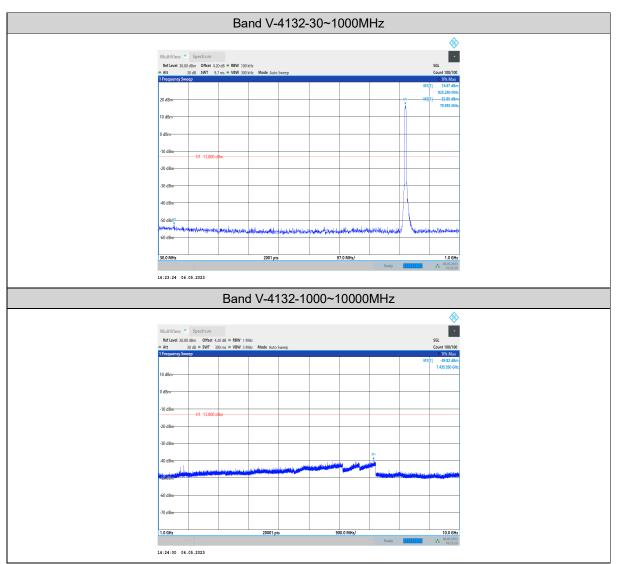
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## **Field Strength of Spurious Radiation**

Test Band = WCDMA Band II\_ TM1
Test Channel = LOW

Fina	l Data List									
NO.	Frequency	Reading	Factor	Λ Γ[-ID/]	Level	Limit	Margin	Height	Angle	Delevito
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3706.5	56.60	-45.53	29.99	-54.19	-13.00	41.19	142	118	Horizontal
2	5557.2000	42.68	-45.14	32.97	-64.75	-13.00	51.75	136	209	Horizontal
3	7409.6000	42.15	-43.38	36.49	-60.01	-13.00	47.01	258	238	Horizontal
4	9262.0000	37.21	-40.23	38.39	-59.89	-13.00	46.89	186	102	Horizontal
5	11114.4000	34.58	-37.88	39.09	-59.47	-13.00	46.47	126	356	Horizontal
6	14480.25	34.09	-34.83	40.02	-55.98	-13.00	42.98	111	224	Horizontal

Fina	l Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3703.5	49.04	-45.51	29.98	-61.75	-13.00	48.75	186	209	Vertical
2	5557.2000	44.38	-45.14	32.97	-63.05	-13.00	50.05	175	285	Vertical
3	7409.6000	40.63	-43.38	36.49	-61.53	-13.00	48.53	146	0	Vertical
4	9262.0000	38.10	-40.23	38.39	-59.00	-13.00	46.00	149	73	Vertical
5	11114.4000	34.42	-37.88	39.09	-59.63	-13.00	46.63	186	29	Vertical
6	14510.25	34.20	-34.89	40.00	-55.94	-13.00	42.94	310	1	Vertical



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## Test Band = WCDMA Band II\_ TM1 **Test Channel = MID**

Fina	l Data List									
NO	Frequency	Reading	Factor	Λ Γ[-ID /]	Level	Limit	Margin	Height	Angle	Dalawitu
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3758.25	53.74	-45.74	30.18	-57.08	-13.00	44.08	128	129	Horizontal
2	5640.0000	46.29	-44.98	33.17	-60.79	-13.00	47.79	143	221	Horizontal
3	7520.0000	41.35	-43.10	36.43	-60.58	-13.00	47.58	256	252	Horizontal
4	9400.0000	37.94	-39.83	38.49	-58.66	-13.00	45.66	215	284	Horizontal
5	11280.0000	35.16	-37.41	39.11	-58.40	-13.00	45.40	193	1	Horizontal
6	13715.25	35.51	-36.20	40.04	-55.91	-13.00	42.91	211	221	Horizontal

Fina	l Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dP/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3761.25	48.50	-45.76	30.19	-62.33	-13.00	49.33	247	90	Vertical
2	5640.0000	45.40	-44.98	33.17	-61.68	-13.00	48.68	186	2	Vertical
3	7520.0000	40.62	-43.10	36.43	-61.31	-13.00	48.31	142	285	Vertical
4	9400.0000	37.71	-39.83	38.49	-58.89	-13.00	45.89	156	196	Vertical
5	11280.0000	34.63	-37.41	39.11	-58.93	-13.00	45.93	236	104	Vertical
6	13756.5	35.18	-36.30	40.00	-56.37	-13.00	43.37	291	165	Vertical



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## Test Band = WCDMA Band II\_ TM1 **Test Channel = HIGH**

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NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3816.75	56.64	-45.98	30.37	-54.23	-13.00	41.23	241	224	Horizontal
2	5725.5	51.46	-44.82	33.48	-55.15	-13.00	42.15	186	224	Horizontal
3	7520.0000	38.96	-43.10	36.43	-62.97	-13.00	49.97	136	356	Horizontal
4	9400.0000	36.59	-39.83	38.49	-60.01	-13.00	47.01	259	252	Horizontal
5	11280.0000	34.05	-37.41	39.11	-59.51	-13.00	46.51	219	356	Horizontal
6	14337.75	34.25	-35.65	40.13	-56.53	-13.00	43.53	175	0	Horizontal

Fina	l Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dP/m]	Level	Limit	Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3813.75	50.36	-45.97	30.36	-60.51	-13.00	47.51	241	91	Vertical
2	5719.5	50.28	-44.83	33.46	-56.35	-13.00	43.35	156	0	Vertical
3	7520.0000	39.09	-43.10	36.43	-62.84	-13.00	49.84	235	60	Vertical
4	9400.0000	37.04	-39.83	38.49	-59.56	-13.00	46.56	188	180	Vertical
5	11280.0000	35.31	-37.41	39.11	-58.25	-13.00	45.25	175	44	Vertical
6	13710	35.25	-36.18	40.05	-56.15	-13.00	43.15	169	60	Vertical



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## Test Band = WCDMA Band IV\_ TM1 Test Channel = LOW

Fina	l Data List									
NO	Frequency	Reading	Factor	V [[4D/]	Level	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3426	55.54	-46.27	29.45	-56.54	-13.00	43.54	143	61	Horizontal
2	5137.2000	41.99	-45.34	32.96	-65.65	-13.00	52.65	165	61	Horizontal
3	6849.6000	41.25	-44.14	35.90	-62.25	-13.00	49.25	185	211	Horizontal
4	8562.0000	37.63	-41.44	37.67	-61.40	-13.00	48.40	199	61	Horizontal
5	10274.4000	35.79	-39.19	38.83	-59.83	-13.00	46.83	211	17	Horizontal
6	14331.75	35.38	-35.73	40.13	-55.48	-13.00	42.48	310	211	Horizontal

Fina	l Data List									
NO.	Frequency	Reading	Factor	Λ [[dP/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3423	50.80	-46.28	29.45	-61.28	-13.00	48.28	102	197	Vertical
2	5137.2000	41.52	-45.34	32.96	-66.12	-13.00	53.12	162	2	Vertical
3	6849.6000	41.02	-44.14	35.90	-62.48	-13.00	49.48	152	301	Vertical
4	8562.0000	38.23	-41.44	37.67	-60.80	-13.00	47.80	185	166	Vertical
5	10274.4000	35.88	-39.19	38.83	-59.74	-13.00	46.74	202	106	Vertical
6	14442	34.60	-34.82	40.05	-55.43	-13.00	42.43	301	106	Vertical



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## Test Band = WCDMA Band IV\_ TM1 **Test Channel = MID**

Fina	l Data List									
NO	Frequency	Reading	Factor	V [[4] [/]	Level	Limit	Margin	Height	Angle	Dalawitu
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3466.5	53.76	-46.27	29.49	-58.28	-13.00	45.28	152	210	Horizontal
2	5197.8000	42.38	-45.28	32.99	-65.17	-13.00	52.17	168	255	Horizontal
3	6930.4000	41.13	-43.93	36.00	-62.06	-13.00	49.06	152	0	Horizontal
4	8663.0000	38.46	-41.56	37.85	-60.50	-13.00	47.50	203	317	Horizontal
5	10395.6000	35.86	-39.01	38.86	-59.55	-13.00	46.55	211	0	Horizontal
6	13693.5	37.33	-36.15	40.06	-54.02	-13.00	41.02	301	300	Horizontal

Fina	l Data List									
NO.	Frequency	Reading	Factor	V [[4] [/]	Level	Limit	Margin	Height	Angle	Dalawitu
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3466.5	51.02	-46.27	29.49	-61.02	-13.00	48.02	103	90	Vertical
2	5197.8000	42.03	-45.28	32.99	-65.52	-13.00	52.52	168	0	Vertical
3	6930.4000	40.65	-43.93	36.00	-62.54	-13.00	49.54	188	90	Vertical
4	8663.0000	38.31	-41.56	37.85	-60.65	-13.00	47.65	169	73	Vertical
5	10395.6000	35.67	-39.01	38.86	-59.74	-13.00	46.74	211	254	Vertical
6	14281.5	35.97	-36.00	40.17	-55.12	-13.00	42.12	301	254	Vertical



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## Test Band = WCDMA Band IV\_ TM1 **Test Channel = HIGH**

Fina	l Data List									
NO	Frequency	Reading	Factor	V [[4D/]	Level	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3506.25	57.55	-46.25	29.53	-54.44	-13.00	41.44	199	120	Horizontal
2	5257.8000	42.48	-45.17	32.93	-65.01	-13.00	52.01	142	315	Horizontal
3	7010.4000	41.05	-43.62	36.11	-61.72	-13.00	48.72	188	270	Horizontal
4	8763.0000	38.97	-41.41	38.02	-59.68	-13.00	46.68	203	0	Horizontal
5	10515.6000	35.49	-38.75	38.98	-59.54	-13.00	46.54	216	331	Horizontal
6	13707.75	36.05	-36.18	40.05	-55.34	-13.00	42.34	311	256	Horizontal

Fina	l Data List									
NO.	Frequency	Reading	Factor	VE[4D/22]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	3507	53.12	-46.25	29.53	-58.86	-13.00	45.86	150	151	Vertical
2	5257.8000	41.76	-45.17	32.93	-65.73	-13.00	52.73	310	105	Vertical
3	7010.4000	40.79	-43.62	36.11	-61.98	-13.00	48.98	258	74	Vertical
4	8763.0000	38.83	-41.41	38.02	-59.82	-13.00	46.82	216	1	Vertical
5	10515.6000	36.03	-38.75	38.98	-59.00	-13.00	46.00	155	46	Vertical
6	13700.25	35.78	-36.16	40.05	-55.59	-13.00	42.59	188	286	Vertical



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## Test Band = WCDMA Band V \_ TM1 Test Channel = LOW

Fina	Final Data List												
NO.	Frequency	Reading	Factor	V [[qD/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1650.8571	47.18	-48.22	25.37	-70.93	-13.00	57.93	109	277	Horizontal			
2	2479.2000	43.04	-47.31	27.70	-71.82	-13.00	58.82	215	360	Horizontal			
3	3305.6000	43.00	-46.67	29.55	-69.38	-13.00	56.38	187	118	Horizontal			
4	4132.0000	41.59	-45.92	31.00	-68.59	-13.00	55.59	221	290	Horizontal			
5	4958.4000	42.04	-45.72	32.76	-66.17	-13.00	53.17	196	171	Horizontal			
6	5954.2857	42.57	-44.68	34.04	-63.32	-13.00	50.32	285	305	Horizontal			

Fina	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1652.8000	44.49	-48.22	25.37	-73.61	-13.00	60.61	215	222	Vertical			
2	2479.2000	44.04	-47.31	27.70	-70.82	-13.00	57.82	147	32	Vertical			
3	3305.6000	42.75	-46.67	29.55	-69.63	-13.00	56.63	231	180	Vertical			
4	4132.0000	42.01	-45.92	31.00	-68.17	-13.00	55.17	159	251	Vertical			
5	4958.4000	41.56	-45.72	32.76	-66.65	-13.00	53.65	148	208	Vertical			
6	7408.5714	41.64	-43.27	36.49	-60.41	-13.00	47.41	129	0	Vertical			



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## Test Band = WCDMA Band V \_ TM1 **Test Channel = MID**

Fina	Final Data List												
NO.	Frequency	Reading	Factor	V [[qD/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1671.4286	46.94	-48.19	25.38	-71.14	-13.00	58.14	187	335	Horizontal			
2	2509.2000	43.60	-47.24	27.80	-71.09	-13.00	58.09	214	335	Horizontal			
3	3345.6000	42.97	-46.62	29.50	-69.41	-13.00	56.41	296	39	Horizontal			
4	4182.0000	41.07	-45.95	31.07	-69.07	-13.00	56.07	158	352	Horizontal			
5	5018.4000	40.96	-45.73	32.89	-67.14	-13.00	54.14	213	214	Horizontal			
6	7001.1429	41.17	-43.58	36.08	-61.58	-13.00	48.58	156	253	Horizontal			

Fina	Final Data List												
NO.	Frequency	Reading	Factor	V [[qD/m]	Level	Limit	Margin	Height	Angle	Dolority			
	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1672.8000	44.58	-48.19	25.38	-73.49	-13.00	60.49	103	267	Vertical			
2	2509.2000	43.53	-47.24	27.80	-71.16	-13.00	58.16	256	357	Vertical			
3	3345.6000	43.09	-46.62	29.50	-69.29	-13.00	56.29	188	201	Vertical			
4	4182.0000	41.75	-45.95	31.07	-68.39	-13.00	55.39	223	25	Vertical			
5	5018.4000	41.17	-45.73	32.89	-66.93	-13.00	53.93	159	53	Vertical			
6	7401.1429	41.73	-43.26	36.49	-60.30	-13.00	47.30	214	357	Vertical			



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#### Test Band = WCDMA Band V \_ TM1 Test Channel = HIGH

Fina	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1695.4286	48.33	-48.17	25.39	-69.71	-13.00	56.71	158	198	Horizontal			
2	2539.8000	43.48	-47.13	27.90	-71.01	-13.00	58.01	212	360	Horizontal			
3	3386.4000	43.43	-46.56	29.45	-68.94	-13.00	55.94	196	359	Horizontal			
4	4233.0000	41.55	-45.90	31.17	-68.44	-13.00	55.44	256	251	Horizontal			
5	5079.6000	41.05	-45.47	32.92	-66.75	-13.00	53.75	148	39	Horizontal			
6	7366.2857	41.94	-43.33	36.51	-60.14	-13.00	47.14	123	132	Horizontal			

Fina	Final Data List												
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folanty			
1	1693.2000	44.38	-48.17	25.39	-73.66	-13.00	60.66	233	240	Vertical			
2	2539.8000	43.61	-47.13	27.90	-70.88	-13.00	57.88	147	134	Vertical			
3	3386.4000	43.28	-46.56	29.45	-69.09	-13.00	56.09	256	96	Vertical			
4	4233.0000	41.97	-45.90	31.17	-68.02	-13.00	55.02	158	227	Vertical			
5	5079.6000	41.23	-45.47	32.92	-66.57	-13.00	53.57	259	255	Vertical			
6	6763.4286	41.88	-44.10	35.77	-61.71	-13.00	48.71	231	0	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**

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	-7.45	-0.003963	PASS
Band II	9400	VN	NT	-4.90	-0.002606	PASS
Band II	9400	VH	NT	-10.62	-0.005649	PASS
Band IV	1413	VL	NT	-11.85	-0.006839	PASS
Band IV	1413	VN	NT	-14.03	-0.008098	PASS
Band IV	1413	VH	NT	-11.56	-0.006672	PASS

	Voltage												
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict						
Band V	4182	VL	NT	-9.48	-0.011334	±2.5	PASS						
Band V	4182	VN	NT	-12.78	-0.015280	±2.5	PASS						
Band V	4182	VH	NT	-7.43	-0.008883	±2.5	PASS						



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	-9.68	-0.005149	PASS
Band II	9400	NV	-20	-10.25	-0.005452	PASS
Band II	9400	NV	-10	-7.46	-0.006783	PASS
Band II	9400	NV	0	-8.19	-0.004356	PASS
Band II	9400	NV	10	-6.03	-0.003207	PASS
Band II	9400	NV	20	-10.72	-0.005702	PASS
Band II	9400	NV	30	-8.88	-0.004723	PASS
Band II	9400	NV	40	-11.64	-0.006191	PASS
Band II	9400	NV	50	-10.97	-0.005835	PASS
Band IV	1413	NV	-30	-13.43	-0.007751	PASS
Band IV	1413	NV	-20	-12.18	-0.007030	PASS
Band IV	1413	NV	-10	-8.36	-0.087431	PASS
Band IV	1413	NV	0	-15.35	-0.008860	PASS
Band IV	1413	NV	10	-13.21	-0.007624	PASS
Band IV	1413	NV	20	-9.67	-0.005581	PASS
Band IV	1413	NV	30	-8.46	-0.004883	PASS
Band IV	1413	NV	40	-8.61	-0.004969	PASS
Band IV	1413	NV	50	-13.43	-0.007751	PASS

			Ter	mperature			
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-11.06	-0.013223	±2.5	PASS
Band V	4182	NV	-20	-8.55	-0.010222	±2.5	PASS
Band V	4182	NV	-10	-13.30	-0.016798	±2.5	PASS
Band V	4182	NV	0	-12.90	-0.015423	±2.5	PASS
Band V	4182	NV	10	-7.25	-0.008668	±2.5	PASS
Band V	4182	NV	20	-13.39	-0.016009	±2.5	PASS
Band V	4182	NV	30	-6.50	-0.007771	±2.5	PASS
Band V	4182	NV	40	-13.12	-0.015686	±2.5	PASS
Band V	4182	NV	50	-4.61	-0.005512	±2.5	PASS

---End of Attachment---



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