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# Appendix B.2

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	22.31	24.24	33	PASS
Band II	9400	22.26	24.19	33	PASS
Band II	9538	22.34	24.27	33	PASS
Band IV	1312	22.34	24.27	30	PASS
Band IV	1413	22.35	24.28	30	PASS
Band IV	1513	22.34	24.27	30	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.07	23.48	38.45	PASS
Band V	4182	23.14	23.55	38.45	PASS
Band V	4233	23.23	23.64	38.45	PASS



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#### Peak-to-Average Ratio

#### **Test Result**

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.82	13	PASS
Band II	9400	2.76	13	PASS
Band II	9538	2.84	13	PASS
Band IV	1312	3.12	13	PASS
Band IV	1413	2.68	13	PASS
Band IV	1513	2.9	13	PASS
Band V	4132	3	13	PASS
Band V	4182	2.94	13	PASS
Band V	4233	2.9	13	PASS



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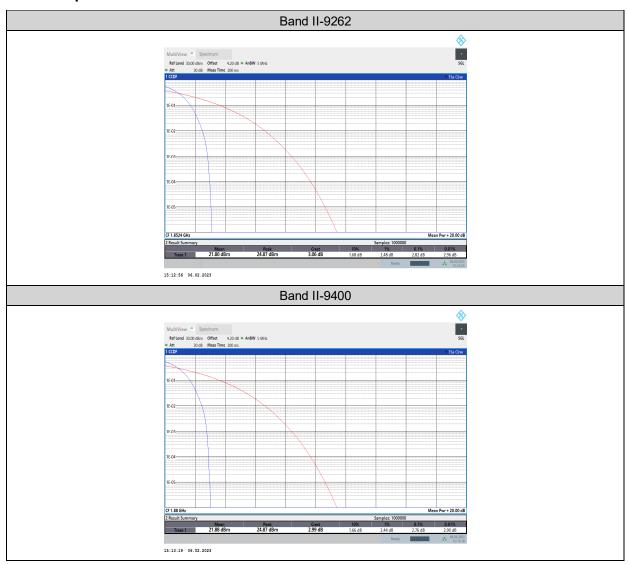
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#### **Test Graphs**





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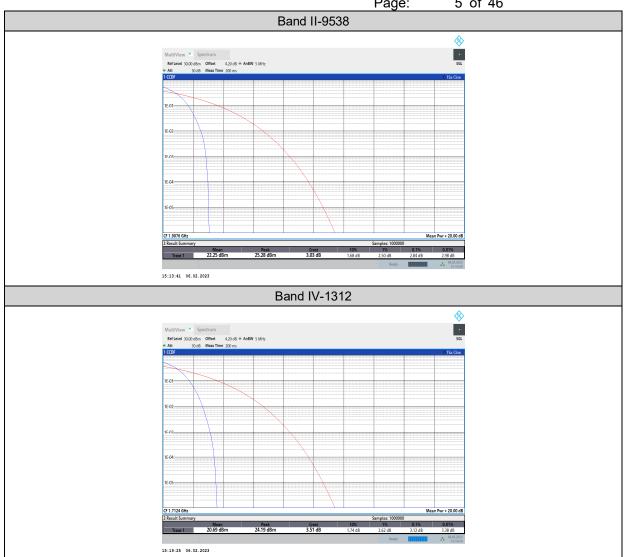
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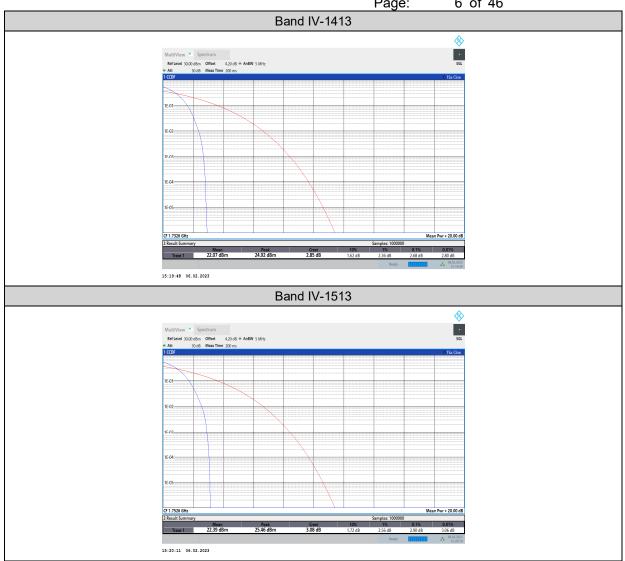
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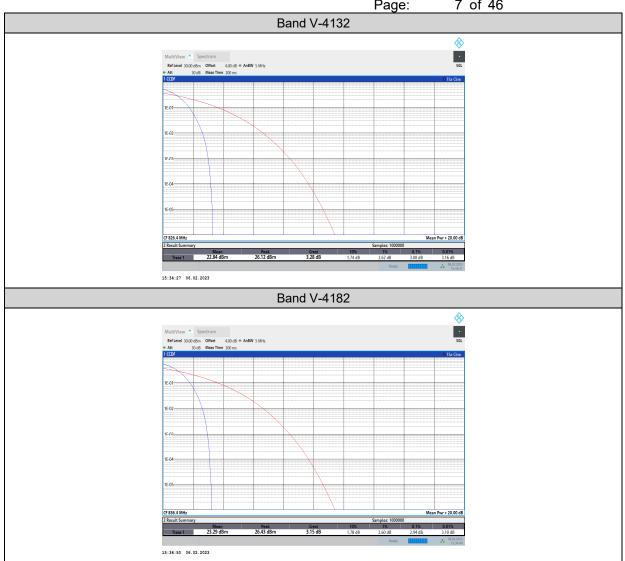
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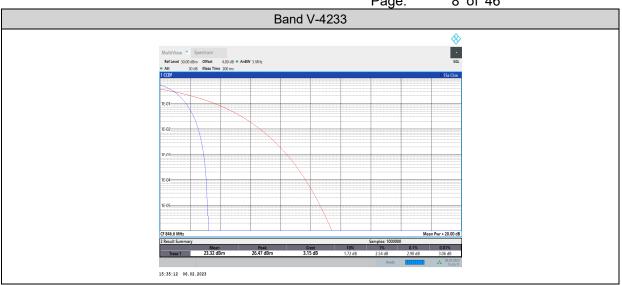
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#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
Band II	9262	4.161	4.75		PASS
Band II	9400	4.163	4.75		PASS
Band II	9538	4.162	4.75		PASS
Band IV	1312	4.15	4.75		PASS
Band IV	1413	4.146	4.74		PASS
Band IV	1513	4.139	4.75		PASS
Band V	4132	4.143	4.73		PASS
Band V	4182	4.145	4.72		PASS
Band V	4233	4.138	4.73		PASS



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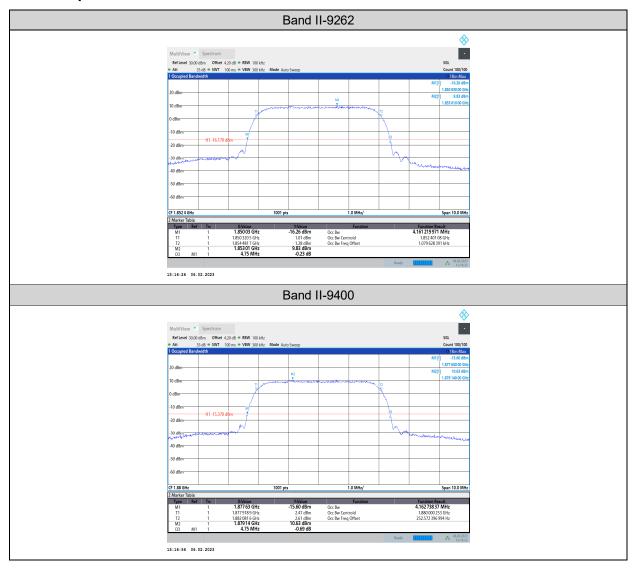


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#### **Test Graphs**





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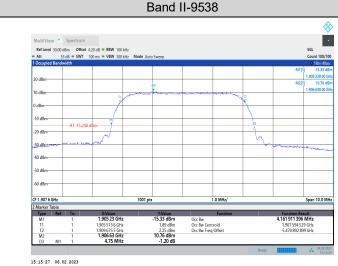
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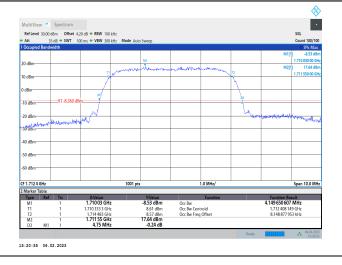
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#### Band IV-1312





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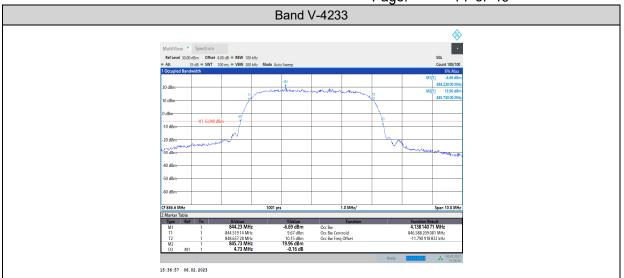
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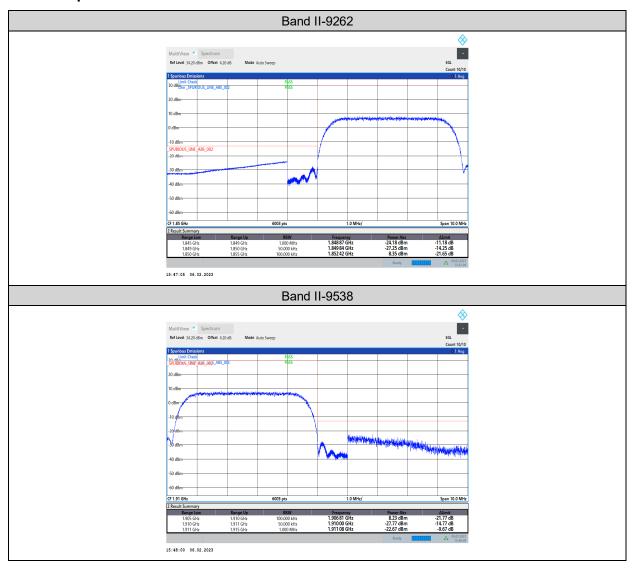
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#### **Band Edge**

#### **Test Graphs**





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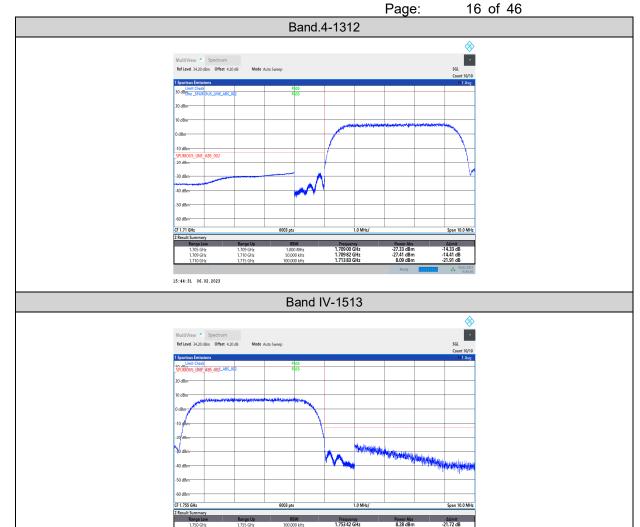
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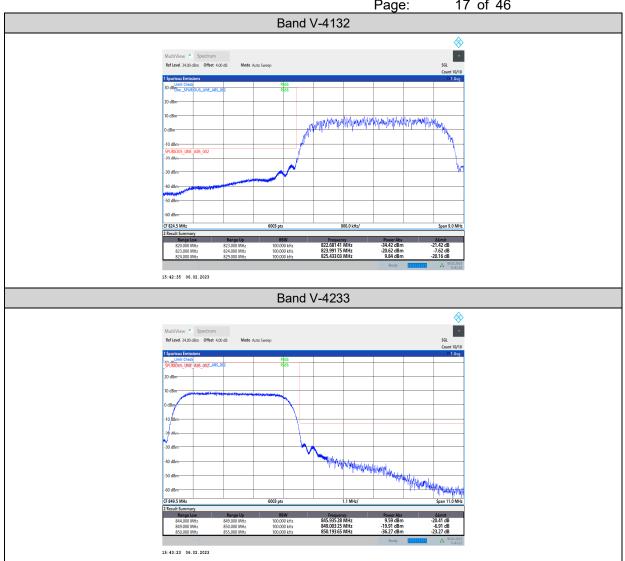
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#### **Conducted SpuriousEmission**

#### **Test Graphs**



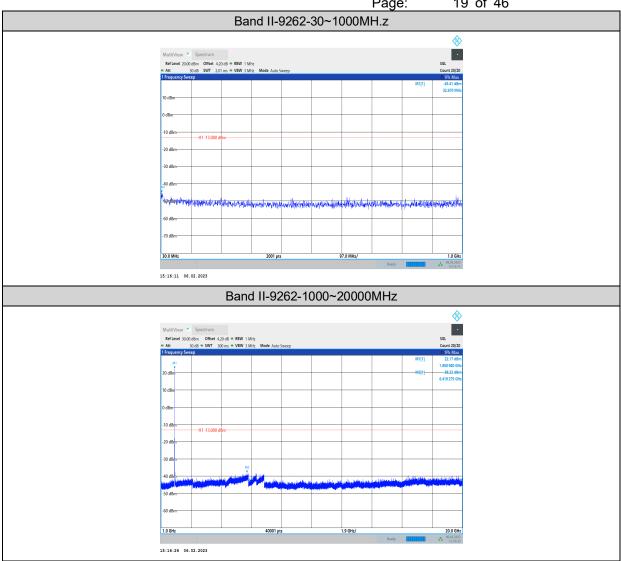


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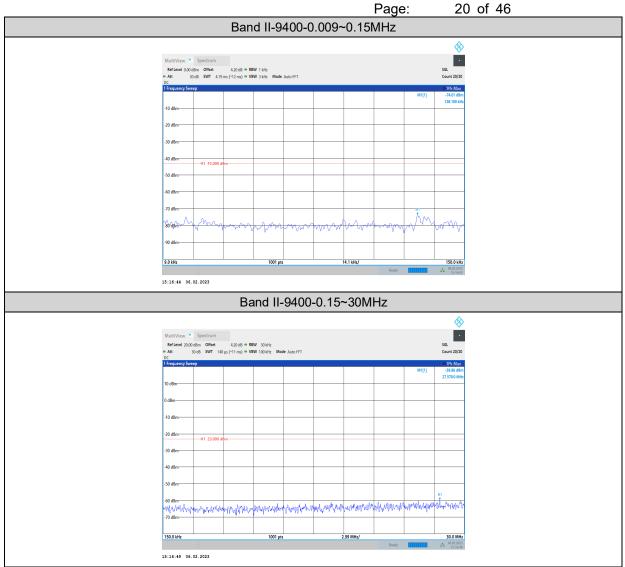
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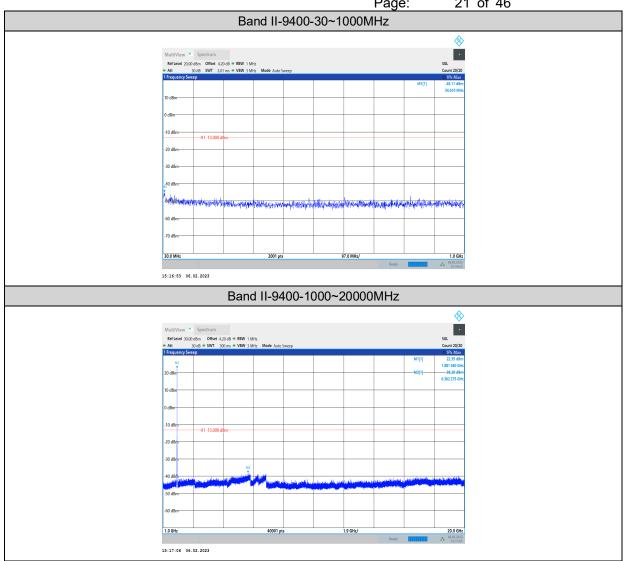
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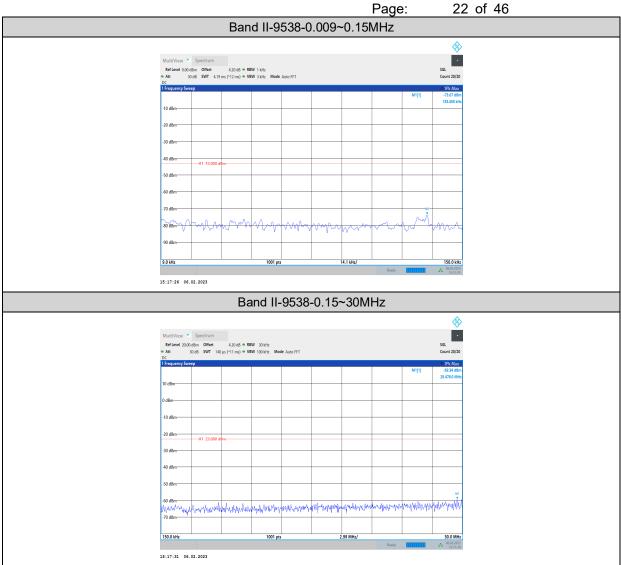
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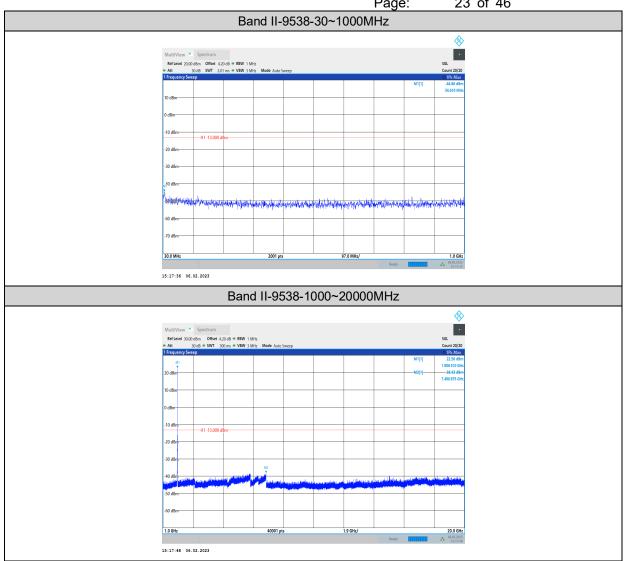
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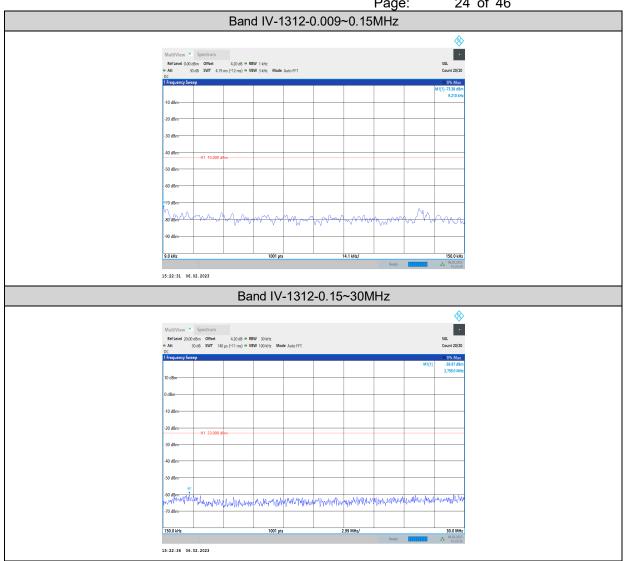
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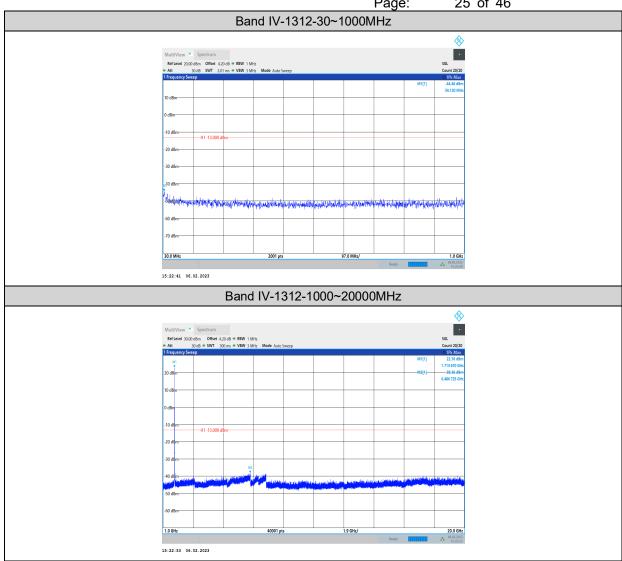
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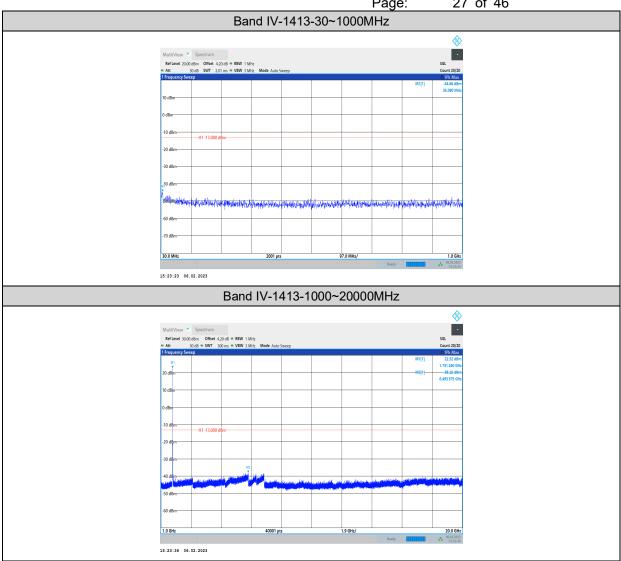
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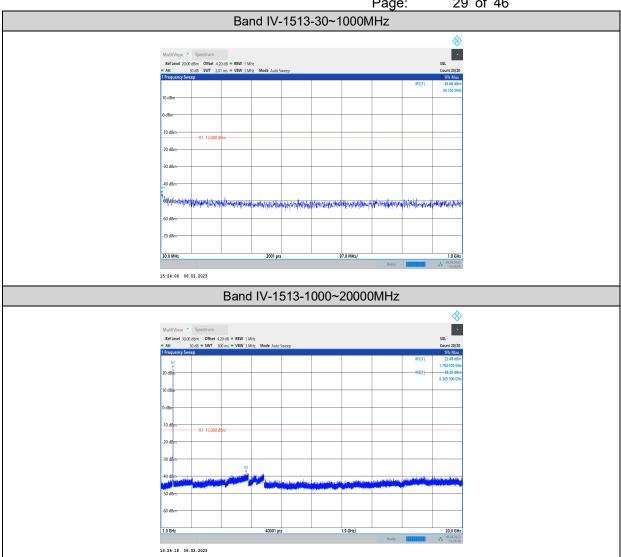
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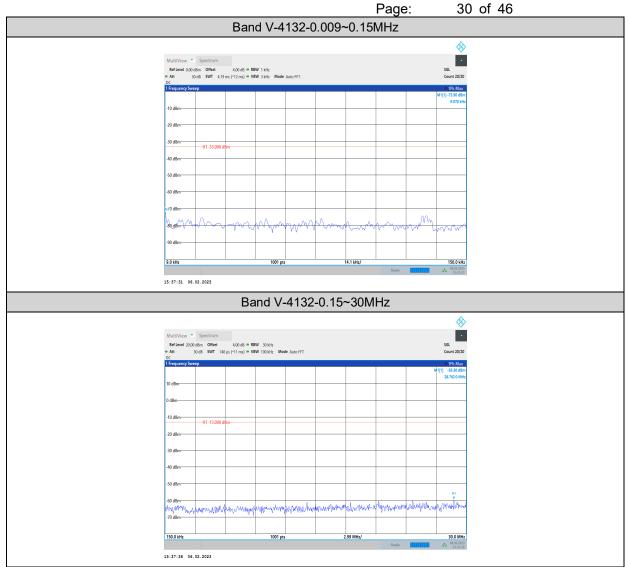
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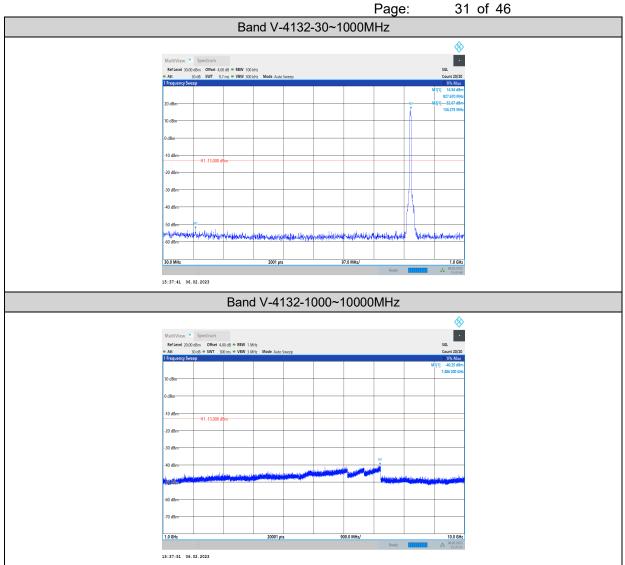
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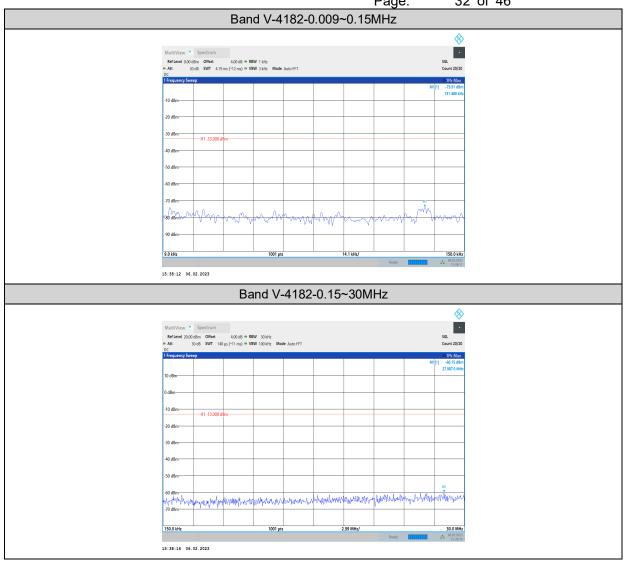
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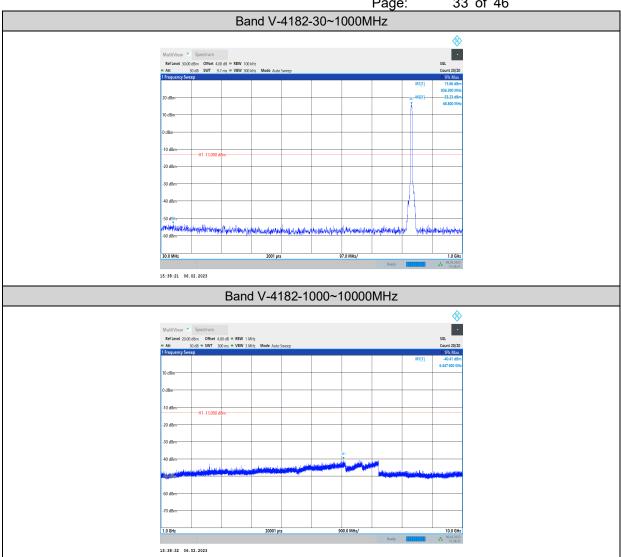
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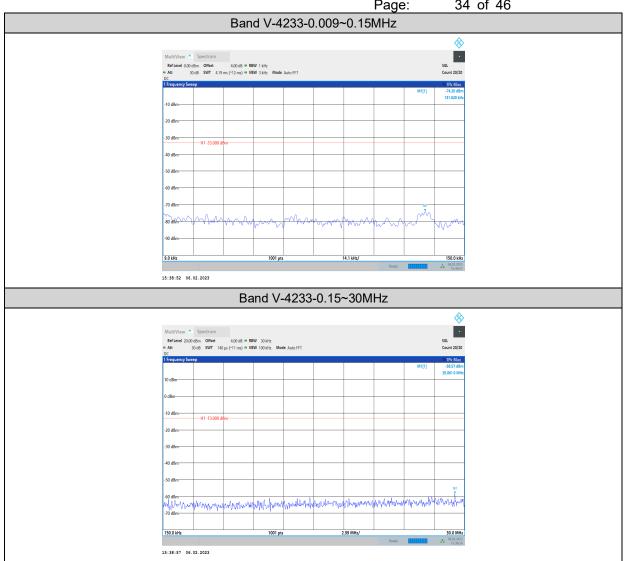
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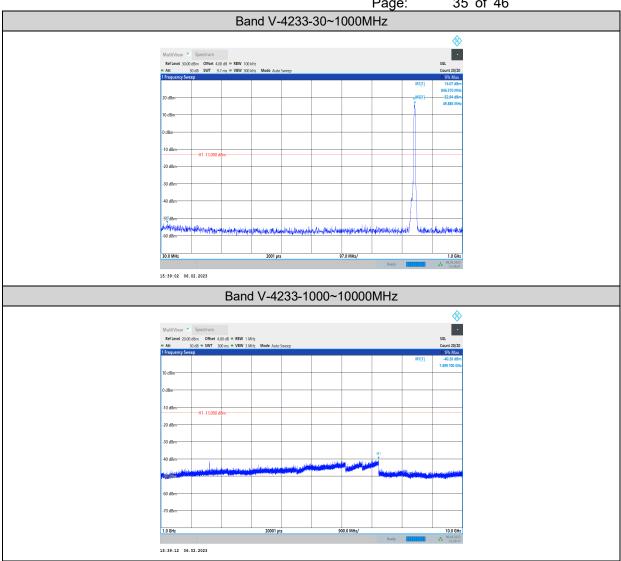
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#### **Field Strength of Spurious Radiation**

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

Final	Final Data List													
NO	Frequency	Reading	Factor	A E [ -   D / 1	Level	Limit	Margin	Height	Angle	Dalasita				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	3705.75	44.90	-45.68	29.89	-66.15	-13.00	53.15	216	160	Horizontal				
2	5557.2	40.31	-43.87	32.78	-66.04	-13.00	53.04	189	360	Horizontal				
3	7409.6	38.69	-41.94	36.45	-62.07	-13.00	49.07	224	144	Horizontal				
4	9262	34.17	-38.39	38.57	-60.91	-13.00	47.91	315	225	Horizontal				
5	11114.4	32.29	-35.32	39.49	-58.80	-13.00	45.80	283	129	Horizontal				
6	12966.8	32.82	-34.90	39.57	-57.77	-13.00	44.77	152	340	Horizontal				

Final	Final Data List												
NO	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Delevity			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3706.5	51.44	-45.68	29.90	-59.61	-13.00	46.61	217	258	Vertical			
2	5557.2	40.69	-43.87	32.78	-65.66	-13.00	52.66	149	291	Vertical			
3	7409.6	38.85	-41.94	36.45	-61.91	-13.00	48.91	216	360	Vertical			
4	9262	34.06	-38.39	38.57	-61.02	-13.00	48.02	179	80	Vertical			
5	11114.4	32.43	-35.32	39.49	-58.66	-13.00	45.66	228	360	Vertical			
6	12966.8	33.34	-34.90	39.57	-57.25	-13.00	44.25	309	325	Vertical			



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

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3760	42.25	-45.54	30.03	-68.52	-13.00	55.52	296	328	Horizontal			
2	5640	40.73	-43.81	33.05	-65.29	-13.00	52.29	265	295	Horizontal			
3	7520	37.93	-41.53	36.54	-62.32	-13.00	49.32	274	278	Horizontal			
4	9400	34.55	-38.16	38.56	-60.31	-13.00	47.31	142	194	Horizontal			
5	11280	30.82	-35.28	39.32	-60.40	-13.00	47.40	263	295	Horizontal			
6	13160	30.81	-34.68	39.70	-59.43	-13.00	46.43	228	144	Horizontal			

Final	Final Data List													
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Dolority				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	3758.25	48.61	-45.54	30.02	-62.17	-13.00	49.17	296	247	Vertical				
2	5760	46.33	-43.57	33.43	-59.06	-13.00	46.06	265	312	Vertical				
3	7520	38.14	-41.53	36.54	-62.11	-13.00	49.11	241	15	Vertical				
4	9400	35.26	-38.16	38.56	-59.60	-13.00	46.60	142	213	Vertical				
5	11280	31.04	-35.28	39.32	-60.18	-13.00	47.18	252	264	Vertical				
6	13160	30.80	-34.68	39.70	-59.44	-13.00	46.44	263	264	Vertical				



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

Final	Final Data List													
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Polarity				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	3816.75	44.58	-45.44	30.16	-65.96	-13.00	52.96	296	360	Horizontal				
2	5722.8	40.25	-43.67	33.31	-65.37	-13.00	52.37	265	292	Horizontal				
3	7630	38.37	-41.28	36.76	-61.41	-13.00	48.41	274	211	Horizontal				
4	9538	35.55	-38.13	38.55	-59.29	-13.00	46.29	142	95	Horizontal				
5	11445.6	31.21	-35.32	39.15	-60.22	-13.00	47.22	263	145	Horizontal				
6	13353.2	32.58	-35.15	39.81	-58.02	-13.00	45.02	287	358	Horizontal				

Final	Final Data List													
NO.	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Delevity				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	3816.75	49.52	-45.44	30.16	-61.02	-13.00	48.02	185	243	Vertical				
2	5760	44.89	-43.57	33.43	-60.50	-13.00	47.50	296	323	Vertical				
3	7630	37.62	-41.28	36.76	-62.16	-13.00	49.16	265	359	Vertical				
4	9538	35.93	-38.13	38.55	-58.91	-13.00	45.91	274	114	Vertical				
5	11445.6	31.29	-35.32	39.15	-60.14	-13.00	47.14	142	32	Vertical				
6	13353.2	32.54	-35.15	39.81	-58.06	-13.00	45.06	263	243	Vertical				



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

Final	Final Data List													
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Polarity				
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity				
1	3424.8	41.82	-45.87	29.43	-69.88	-13.00	56.88	196	65	Horizontal				
2	5137.2	40.29	-44.24	32.60	-66.61	-13.00	53.61	265	360	Horizontal				
3	6849.6	40.25	-42.50	35.90	-61.61	-13.00	48.61	284	345	Horizontal				
4	8562	36.57	-39.70	38.12	-60.27	-13.00	47.27	142	99	Horizontal				
5	10274.4	33.33	-36.76	38.80	-59.89	-13.00	46.89	263	329	Horizontal				
6	11986.8	33.09	-35.35	38.61	-58.90	-13.00	45.90	228	215	Horizontal				

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3424.8	42.23	-45.87	29.43	-69.47	-13.00	56.47	296	324	Vertical			
2	5137.2	41.51	-44.24	32.60	-65.39	-13.00	52.39	265	290	Vertical			
3	6849.6	40.75	-42.50	35.90	-61.11	-13.00	48.11	284	324	Vertical			
4	8562	36.35	-39.70	38.12	-60.49	-13.00	47.49	142	66	Vertical			
5	10274.4	34.00	-36.76	38.80	-59.22	-13.00	46.22	255	193	Vertical			
6	11986.8	32.53	-35.35	38.61	-59.46	-13.00	46.46	263	16	Vertical			



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

Final	Final Data List												
NO.	Frequency	Reading	Factor	A E[dD/m]	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	3465.2	42.22	-45.77	29.41	-69.40	-13.00	56.40	296	116	Horizontal			
2	5197.8	40.71	-44.15	32.60	-66.10	-13.00	53.10	265	313	Horizontal			
3	6930.4	39.76	-42.48	36.06	-61.92	-13.00	48.92	241	131	Horizontal			
4	8663	36.27	-39.54	38.23	-60.30	-13.00	47.30	175	33	Horizontal			
5	10395.6	31.20	-36.49	38.94	-61.61	-13.00	48.61	263	265	Horizontal			
6	12128.2	32.02	-35.20	38.73	-59.71	-13.00	46.71	228	279	Horizontal			

Final	Final Data List											
	Frequency	Reading	Factor		Level	Limit	Margin	Height	Angle			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	3525.75	57.04	-45.57	29.46	-54.33	-13.00	41.33	196	227	Vertical		
2	5197.8	41.09	-44.15	32.60	-65.72	-13.00	52.72	265	146	Vertical		
3	6930.4	40.08	-42.48	36.06	-61.60	-13.00	48.60	284	196	Vertical		
4	8663	36.26	-39.54	38.23	-60.31	-13.00	47.31	142	351	Vertical		
5	10395.6	31.47	-36.49	38.94	-61.34	-13.00	48.34	263	357	Vertical		
6	12128.2	31.82	-35.20	38.73	-59.91	-13.00	46.91	228	3	Vertical		



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

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	3505.2	41.71	-45.66	29.41	-69.80	-13.00	56.80	174	162	Horizontal		
2	5257.8	40.66	-44.07	32.60	-66.07	-13.00	53.07	142	260	Horizontal		
3	7010.4	39.11	-42.58	36.21	-62.52	-13.00	49.52	265	360	Horizontal		
4	8763	35.57	-39.21	38.34	-60.56	-13.00	47.56	285	50	Horizontal		
5	10515.6	32.62	-36.35	39.07	-59.93	-13.00	46.93	241	325	Horizontal		
6	12268.2	31.27	-35.12	38.87	-60.24	-13.00	47.24	146	357	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Dolovity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	3505.2	42.39	-45.66	29.41	-69.12	-13.00	56.12	296	198	Vertical		
2	5257.8	40.51	-44.07	32.60	-66.22	-13.00	53.22	285	351	Vertical		
3	7010.4	39.96	-42.58	36.21	-61.67	-13.00	48.67	241	15	Vertical		
4	8763	35.37	-39.21	38.34	-60.76	-13.00	47.76	142	31	Vertical		
5	10515.6	32.37	-36.35	39.07	-60.18	-13.00	47.18	263	164	Vertical		
6	12268.2	31.27	-35.12	38.87	-60.24	-13.00	47.24	287	131	Vertical		



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

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1652.8	46.43	-48.37	25.57	-71.63	-13.00	58.63	296	216	Horizontal		
2	2479.2	42.72	-46.91	27.86	-71.60	-13.00	58.60	265	272	Horizontal		
3	3305.6	41.93	-46.12	29.48	-69.97	-13.00	56.97	284	172	Horizontal		
4	4132	41.12	-45.31	30.81	-68.64	-13.00	55.64	142	113	Horizontal		
5	4958.4	40.76	-45.07	32.50	-67.07	-13.00	54.07	255	142	Horizontal		
6	5784.8	39.85	-43.52	33.51	-65.42	-13.00	52.42	286	99	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Foldfilly		
1	5760	44.54	-43.53	33.43	-60.82	-13.00	47.82	296	310	Vertical		
2	1652.8	45.82	-48.37	25.57	-72.24	-13.00	59.24	265	267	Vertical		
3	2479.2	43.03	-46.91	27.86	-71.29	-13.00	58.29	241	251	Vertical		
4	3305.6	41.91	-46.12	29.48	-69.99	-13.00	56.99	174	325	Vertical		
5	4132	40.99	-45.31	30.81	-68.77	-13.00	55.77	142	207	Vertical		
6	4958.4	40.96	-45.07	32.50	-66.87	-13.00	53.87	255	4	Vertical		



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

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatity		
1	1672.8	47.20	-48.32	25.56	-70.81	-13.00	57.81	196	302	Horizontal		
2	2509.2	42.72	-46.79	27.93	-71.40	-13.00	58.40	265	112	Horizontal		
3	3345.6	42.21	-46.19	29.46	-69.78	-13.00	56.78	274	331	Horizontal		
4	4182	42.00	-45.16	30.89	-67.53	-13.00	54.53	142	112	Horizontal		
5	5018.4	40.40	-44.93	32.60	-67.19	-13.00	54.19	255	186	Horizontal		
6	5854.8	39.75	-43.34	33.74	-65.11	-13.00	52.11	286	112	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ Γ[dD/ma]	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1672.8	46.41	-48.32	25.56	-71.60	-13.00	58.60	296	260	Vertical		
2	2509.2	42.58	-46.79	27.93	-71.54	-13.00	58.54	265	114	Vertical		
3	3345.6	42.52	-46.19	29.46	-69.47	-13.00	56.47	241	72	Vertical		
4	4182	41.44	-45.16	30.89	-68.09	-13.00	55.09	185	14	Vertical		
5	5018.4	41.13	-44.93	32.60	-66.46	-13.00	53.46	263	3	Vertical		
6	5854.8	40.00	-43.34	33.74	-64.86	-13.00	51.86	227	291	Vertical		



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

Final	Final Data List											
NO	Frequency	Reading	Factor	A E[dB/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1693.2	44.74	-48.26	25.55	-73.22	-13.00	60.22	285	243	Horizontal		
2	2539.8	42.62	-46.94	28.04	-71.54	-13.00	58.54	241	0	Horizontal		
3	3386.4	42.20	-46.26	29.45	-69.87	-13.00	56.87	142	272	Horizontal		
4	4233	40.93	-45.11	30.97	-68.47	-13.00	55.47	263	66	Horizontal		
5	5079.6	40.77	-44.67	32.60	-66.56	-13.00	53.56	265	154	Horizontal		
6	5926.2	39.92	-43.30	33.96	-64.67	-13.00	51.67	298	302	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	A E[dP/m]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatity		
1	1693.2	46.20	-48.26	25.55	-71.76	-13.00	58.76	196	261	Vertical		
2	2539.8	42.98	-46.94	28.04	-71.18	-13.00	58.18	265	233	Vertical		
3	3386.4	42.18	-46.26	29.45	-69.89	-13.00	56.89	241	332	Vertical		
4	4233	40.54	-45.11	30.97	-68.86	-13.00	55.86	142	290	Vertical		
5	5079.6	40.96	-44.67	32.60	-66.37	-13.00	53.37	255	360	Vertical		
6	5926.2	40.37	-43.30	33.96	-64.22	-13.00	51.22	286	204	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	-41.03	-0.021824	PASS
Band II	9400	VN	NT	-69.77	-0.037112	PASS
Band II	9400	VH	NT	-24.51	-0.013037	PASS
Band IV	1413	VL	NT	8.37	0.004831	PASS
Band IV	1413	VN	NT	5.47	0.003157	PASS
Band IV	1413	VH	NT	8.05	0.004646	PASS

	Voltage											
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict					
Band V	4182	VL	NT	-3.71	-0.004436	±2.5	PASS					
Band V	4182	VN	NT	-1.96	-0.002343	±2.5	PASS					
Band V	4182	VH	NT	-4.56	-0.005452	±2.5	PASS					



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	-15.94	-0.008479	PASS
Band II	9400	NV	-20	-9.78	-0.005202	PASS
Band II	9400	NV	-10	-5.06	-0.002387	PASS
Band II	9400	NV	0	-6.05	-0.003218	PASS
Band II	9400	NV	10	-3.14	-0.001670	PASS
Band II	9400	NV	20	-0.45	-0.000239	PASS
Band II	9400	NV	30	0.08	0.000043	PASS
Band II	9400	NV	40	0.55	0.000293	PASS
Band II	9400	NV	50	1.64	0.000872	PASS
Band IV	1413	NV	-30	5.17	0.002984	PASS
Band IV	1413	NV	-20	5.35	0.003088	PASS
Band IV	1413	NV	-10	3.36	0.001635	PASS
Band IV	1413	NV	0	4.45	0.002568	PASS
Band IV	1413	NV	10	4.88	0.002817	PASS
Band IV	1413	NV	20	3.49	0.002014	PASS
Band IV	1413	NV	30	4.10	0.002366	PASS
Band IV	1413	NV	40	2.97	0.001714	PASS
Band IV	1413	NV	50	1.76	0.001016	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-4.18	-0.004998	±2.5	PASS
Band V	4182	NV	-20	-3.57	-0.004268	±2.5	PASS
Band V	4182	NV	-10	-2.65	-0.002653	±2.5	PASS
Band V	4182	NV	0	-2.78	-0.003324	±2.5	PASS
Band V	4182	NV	10	-2.27	-0.002714	±2.5	PASS
Band V	4182	NV	20	-1.82	-0.002176	±2.5	PASS
Band V	4182	NV	30	-1.41	-0.001686	±2.5	PASS
Band V	4182	NV	40	-1.46	-0.001746	±2.5	PASS
Band V	4182	NV	50	-0.94	-0.001124	±2.5	PASS

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