



Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT2

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	24.62	22.32	33	PASS
Band II	9400	24.73	22.43	33	PASS
Band II	9538	24.6	22.3	33	PASS

ANT3

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band IV	1312	24.11	23.11	30	PASS
Band IV	1413	24.39	23.39	30	PASS
Band IV	1513	24.25	23.25	30	PASS

ANT1

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	24.19	17.94	38.5	PASS
Band V	4182	24.06	17.81	38.5	PASS
Band V	4233	23.92	17.67	38.5	PASS



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Wireless Laboratories

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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.86	13	PASS
Band II	9400	2.9	13	PASS
Band II	9538	2.8	13	PASS
Band IV	1312	2.88	13	PASS
Band IV	1413	2.9	13	PASS
Band IV	1513	2.88	13	PASS
Band V	4132	2.98	13	PASS
Band V	4182	2.98	13	PASS
Band V	4233	3.08	13	PASS



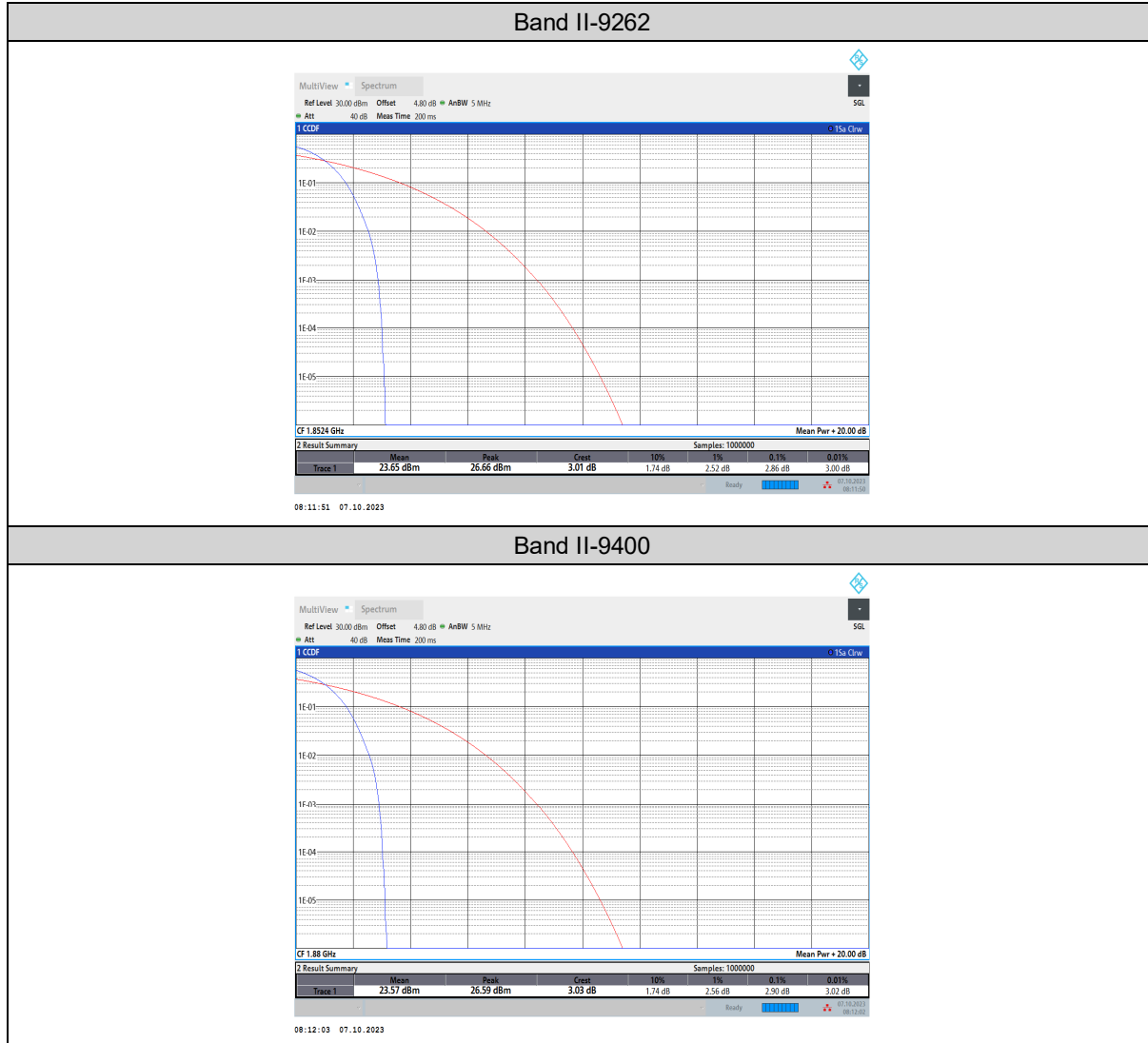
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Test Graphs



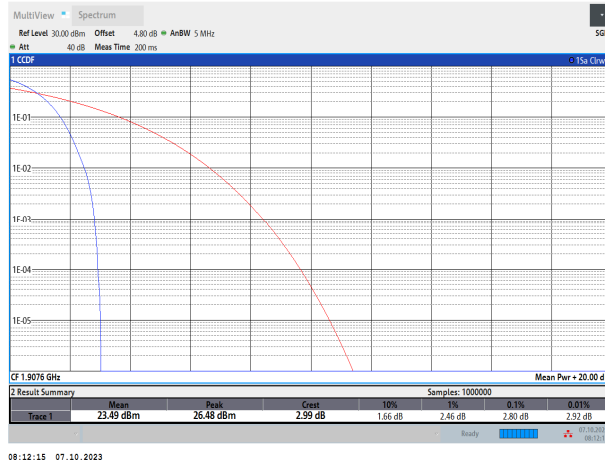
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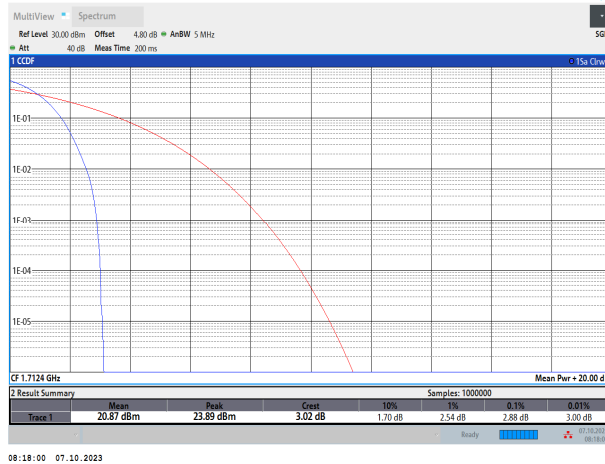
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Band II-9538



Band IV-1312

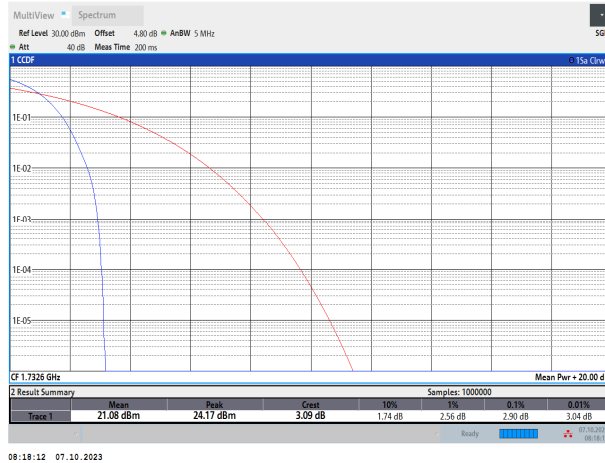


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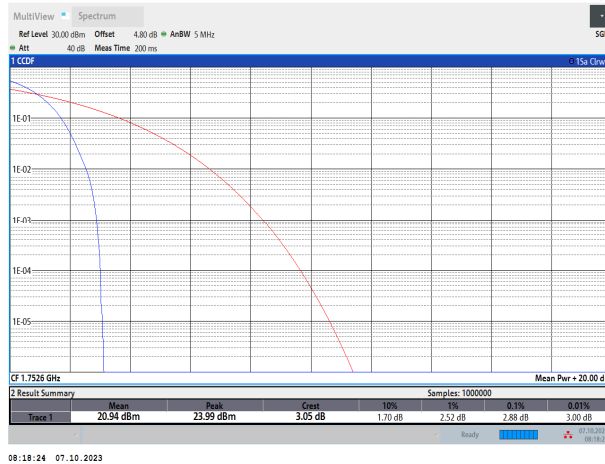
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Band IV-1413



Band IV-1513

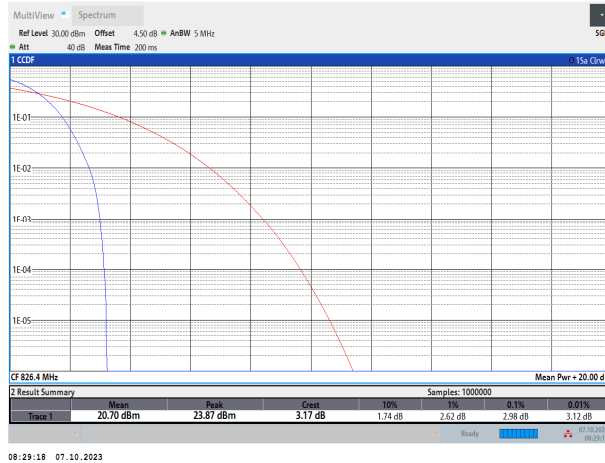


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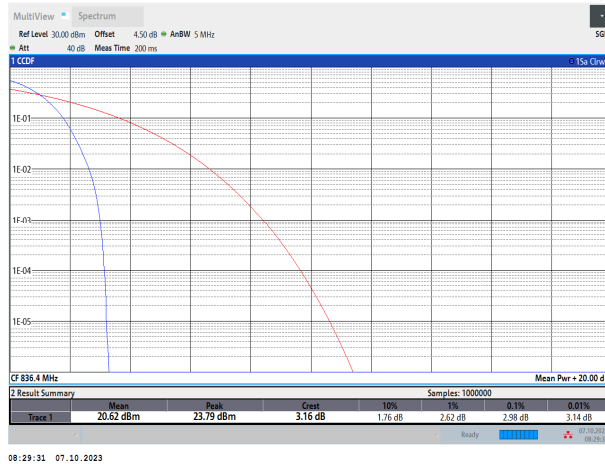
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Band V-4132



Band V-4182



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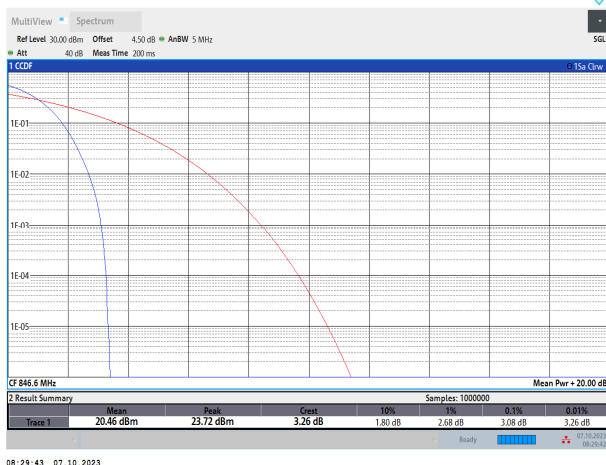


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Band V-4233



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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	4.168	4.77	---	PASS
Band II	9400	4.166	4.76	---	PASS
Band II	9538	4.17	4.76	---	PASS
Band IV	1312	4.146	4.74	---	PASS
Band IV	1413	4.149	4.73	---	PASS
Band IV	1513	4.151	4.73	---	PASS
Band V	4132	4.139	4.73	---	PASS
Band V	4182	4.139	4.74	---	PASS
Band V	4233	4.136	4.73	---	PASS



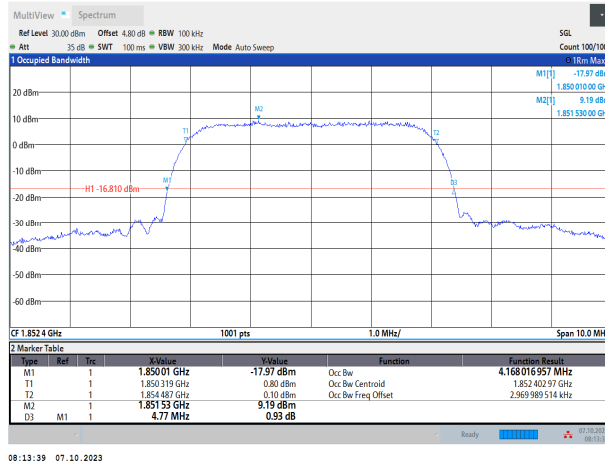
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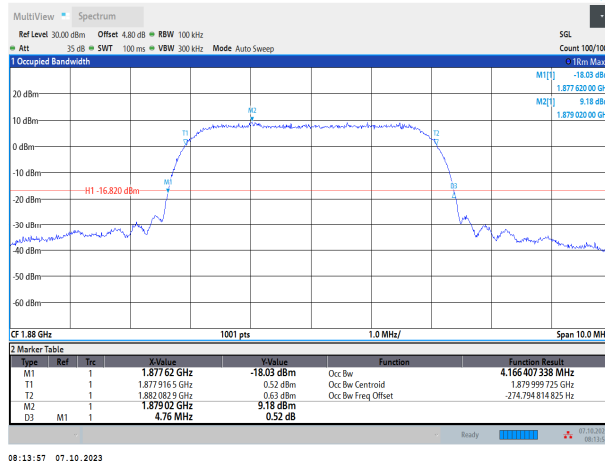
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Test Graphs

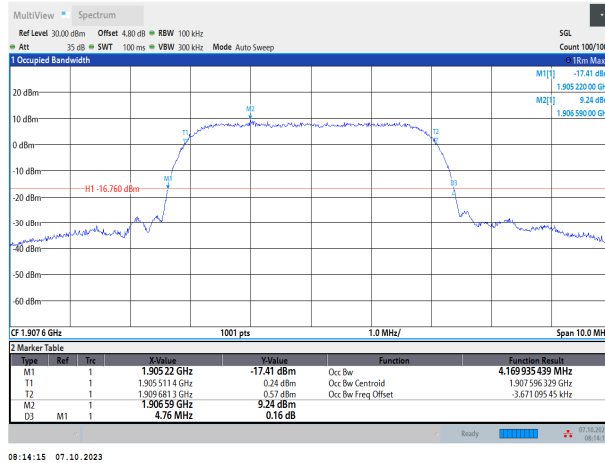
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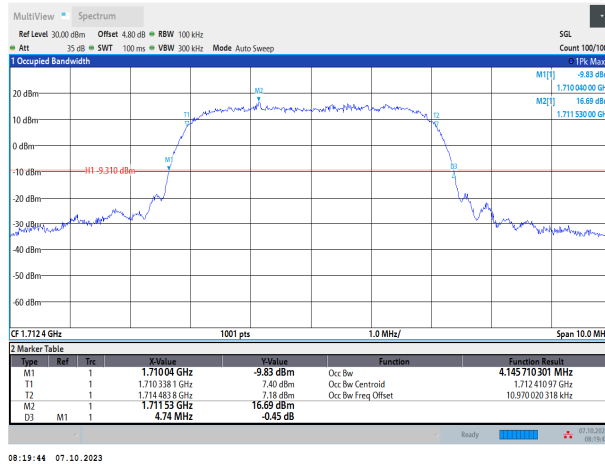
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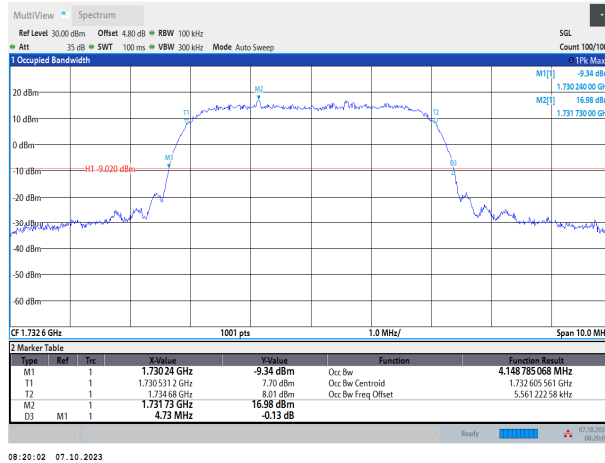
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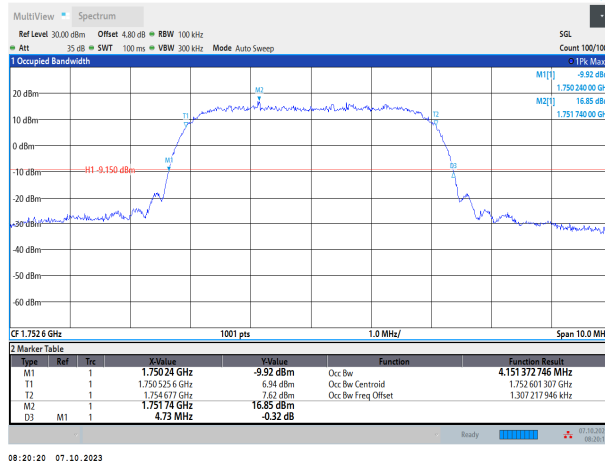
Band IV-1312



Band IV-1413



Band IV-1513



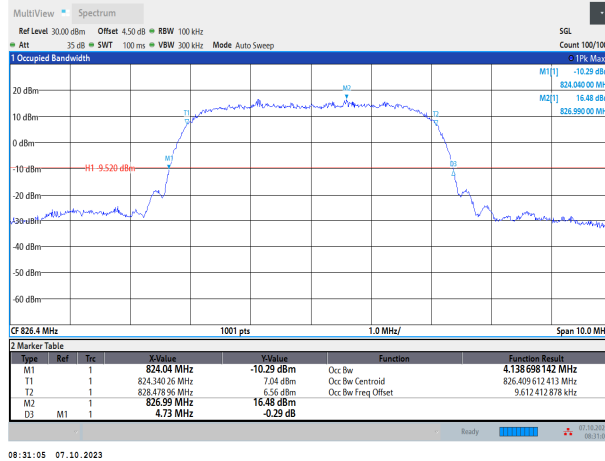
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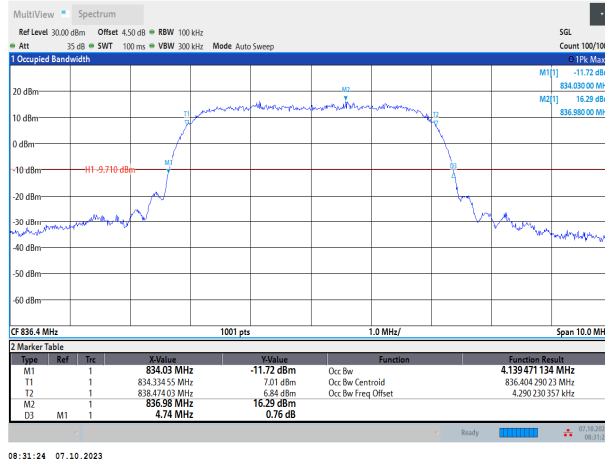
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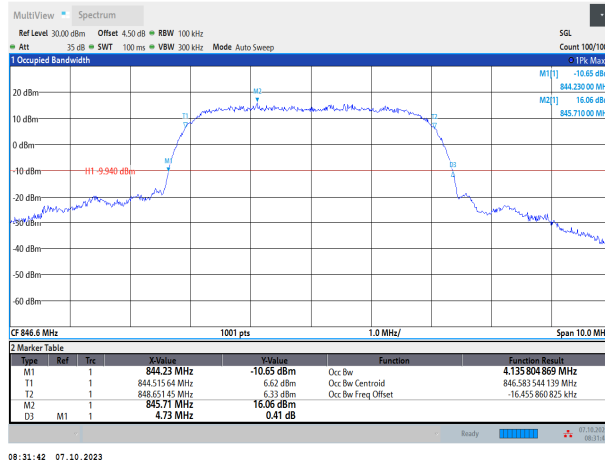
Band V-4132



Band V-4182



Band V-4233



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Band Edge

Test Graphs



Band IV-1312



Band IV-1513



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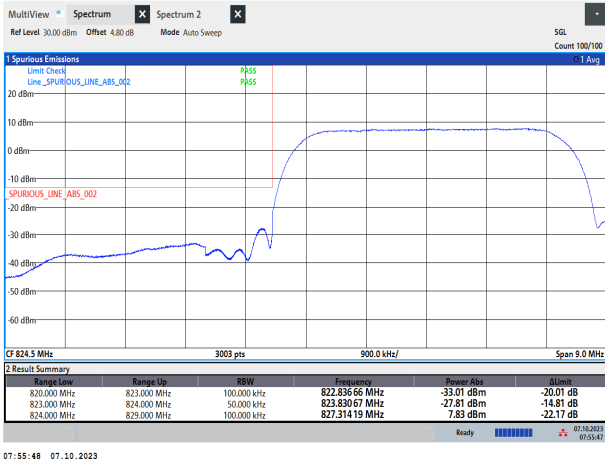
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Band V-4132

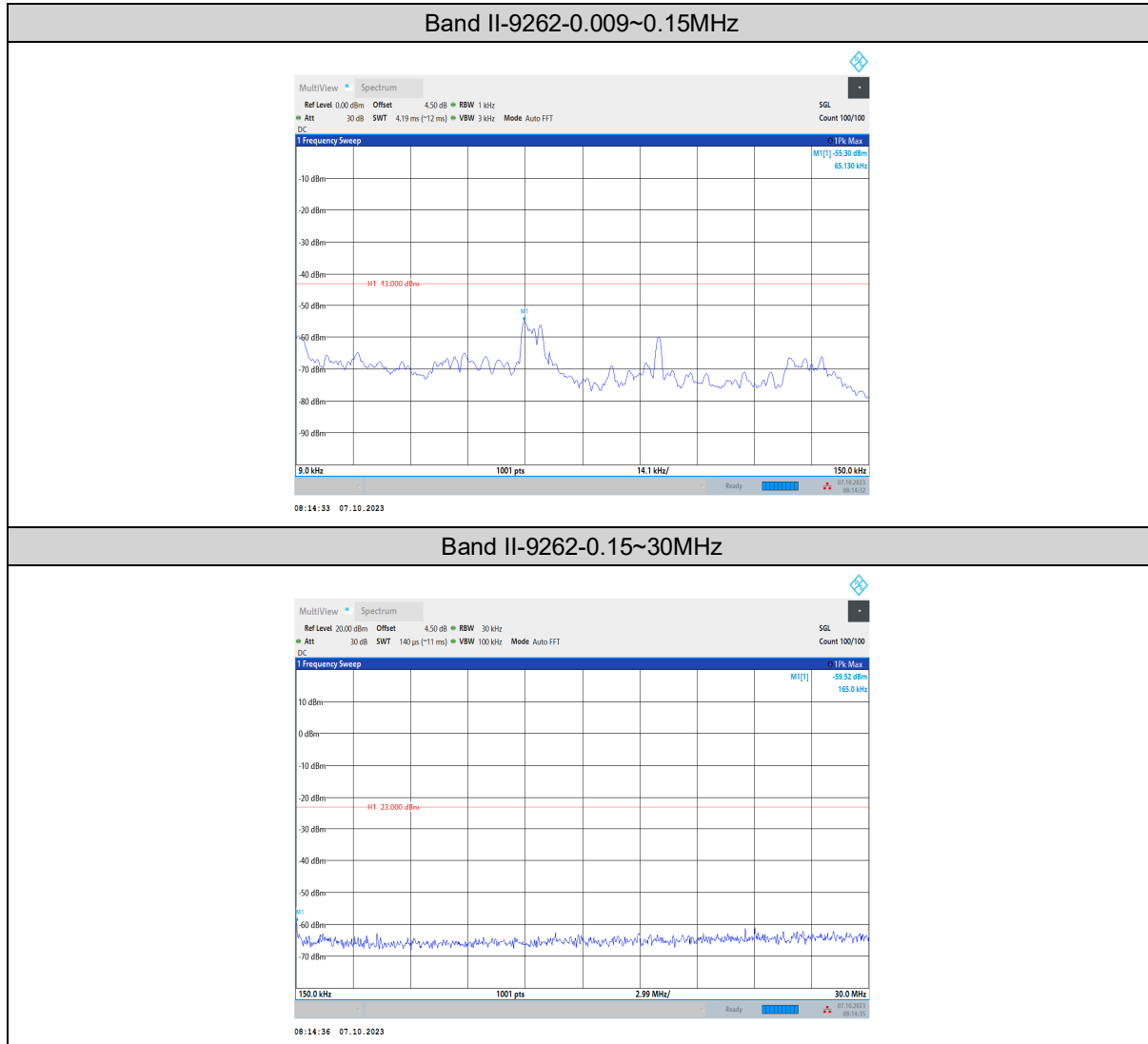


Band V-4233



Conducted Spurious Emission

Test Graphs



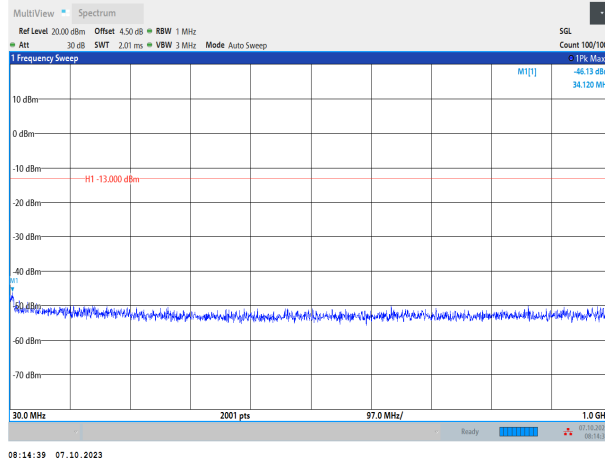
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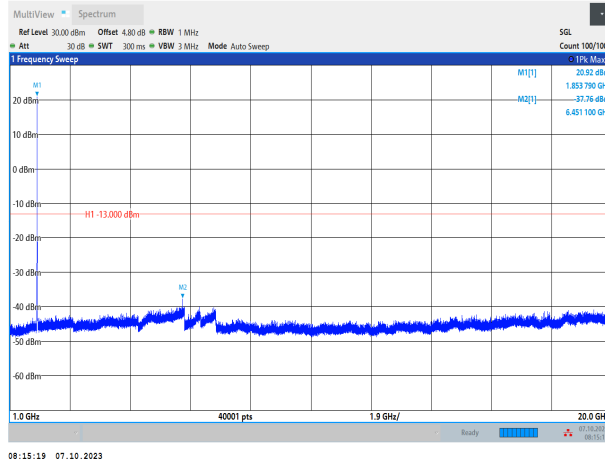
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Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz



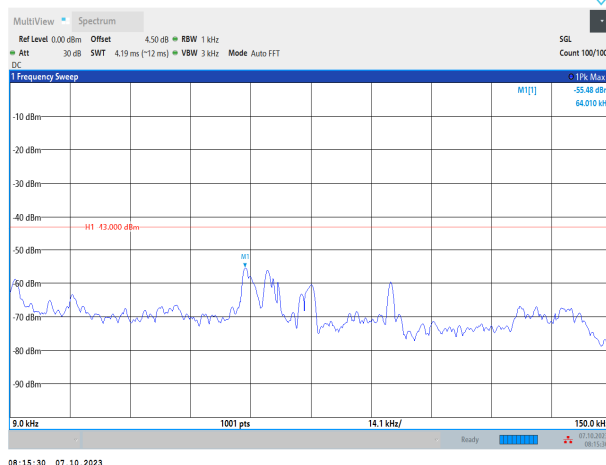


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Band II-9400-0.009~0.15MHz

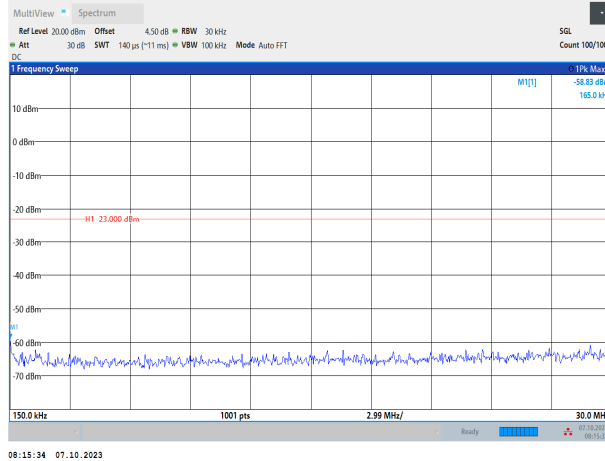


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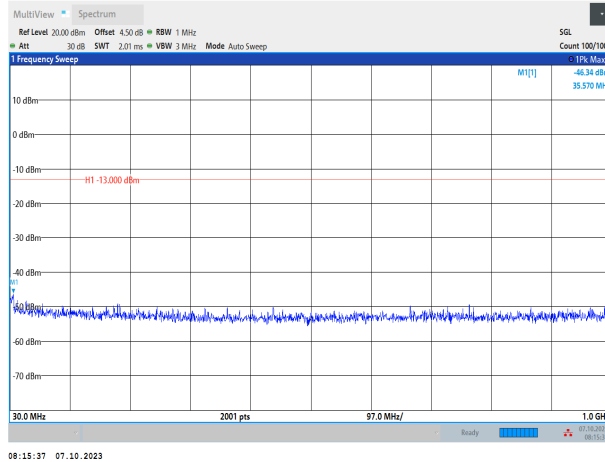
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Band II-9400-0.15~30MHz



Band II-9400-30~1000MHz



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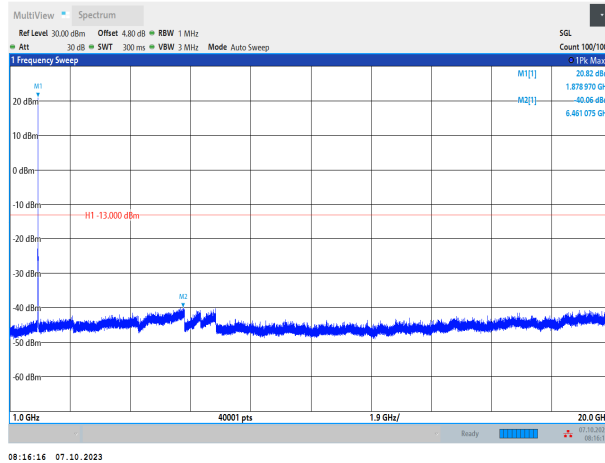


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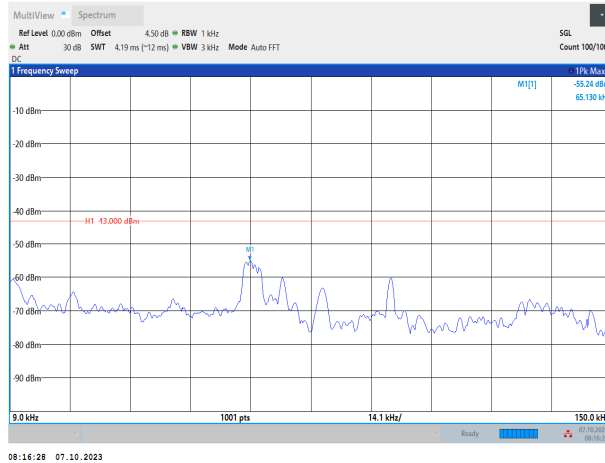
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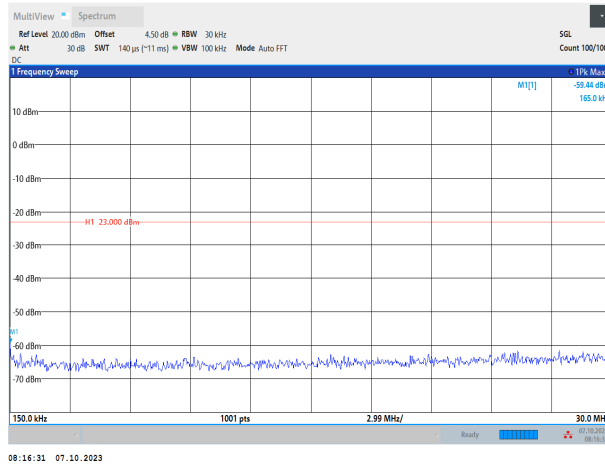
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Band II-9538-0.009~0.15MHz



Band II-9538-0.15~30MHz



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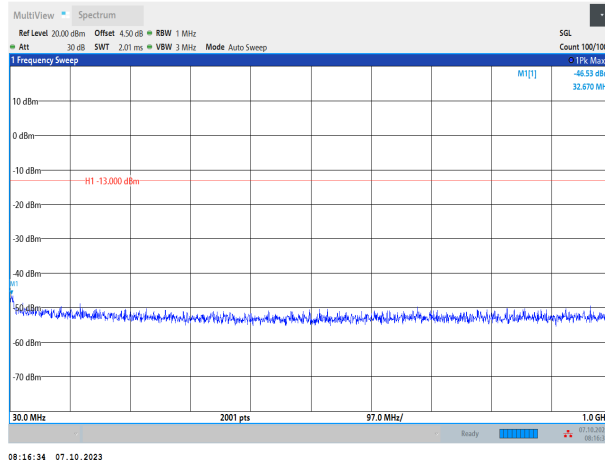


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Band II-9538-30~1000MHz



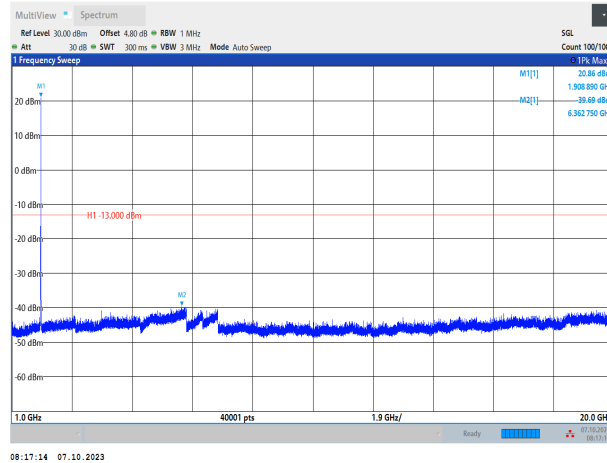
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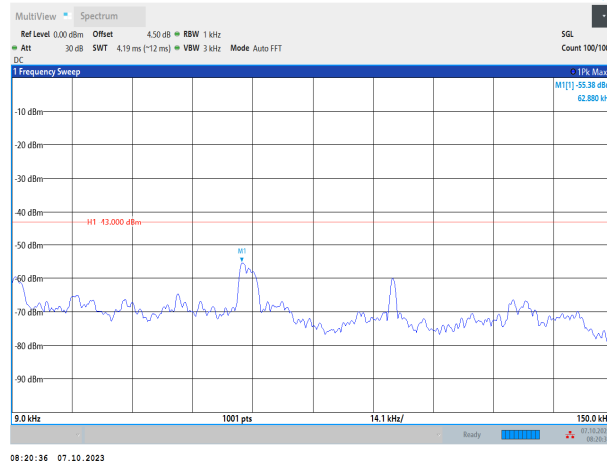
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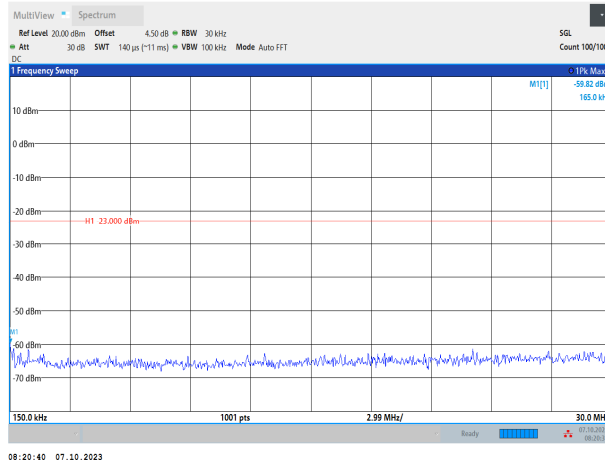


Band IV-1312-0.009~0.15MHz





Band IV-1312-0.15~30MHz



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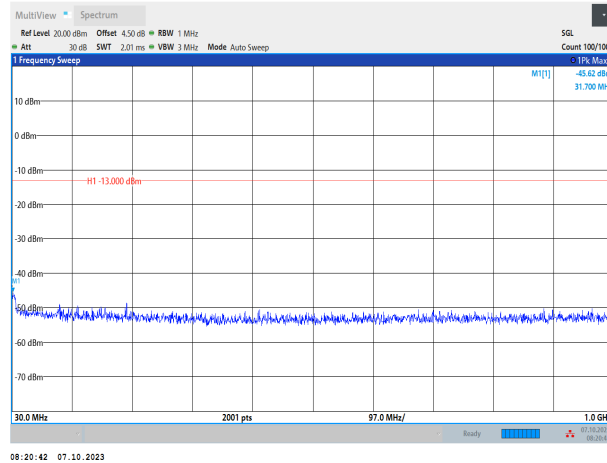
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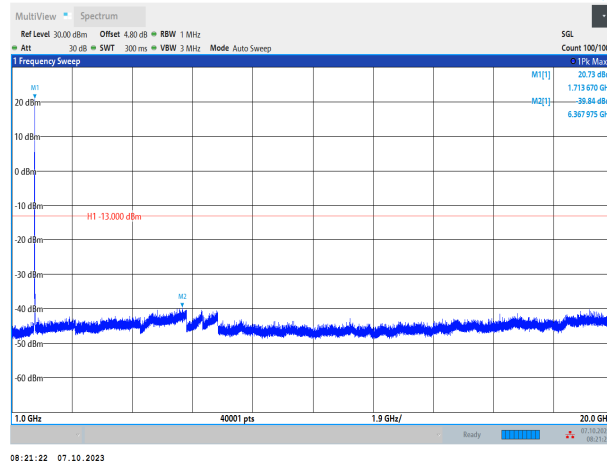
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Band IV-1312-30~1000MHz



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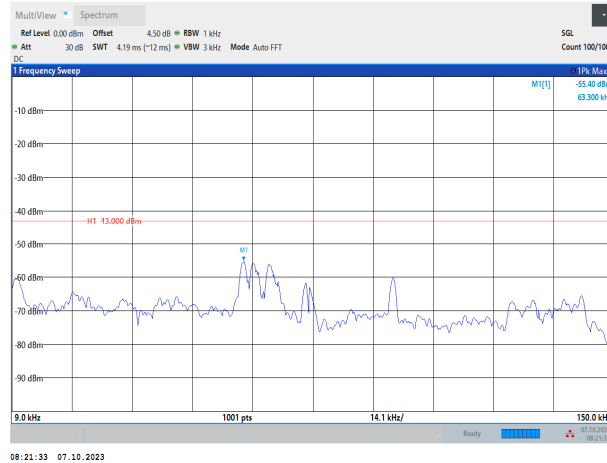


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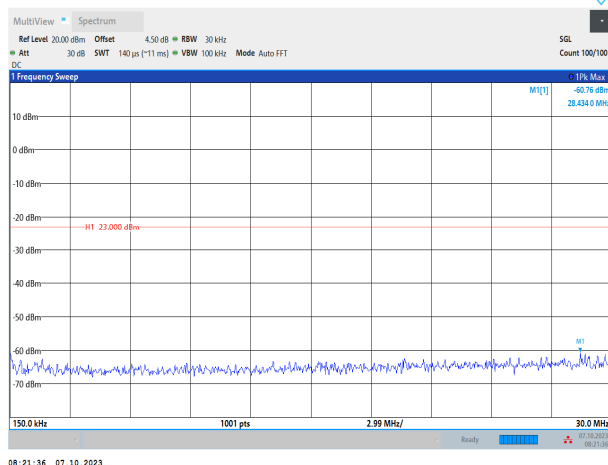


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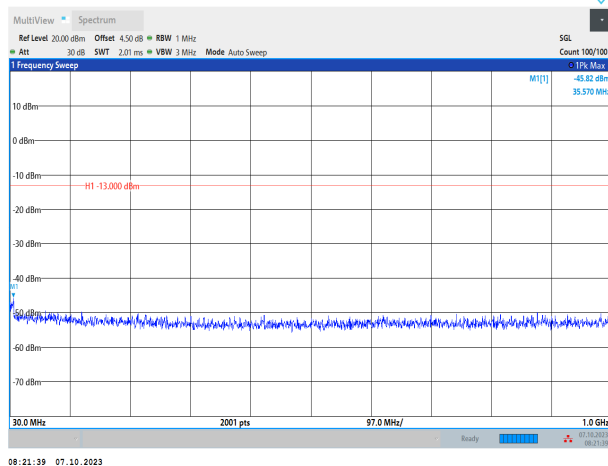
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Band IV-1413-30~1000MHz



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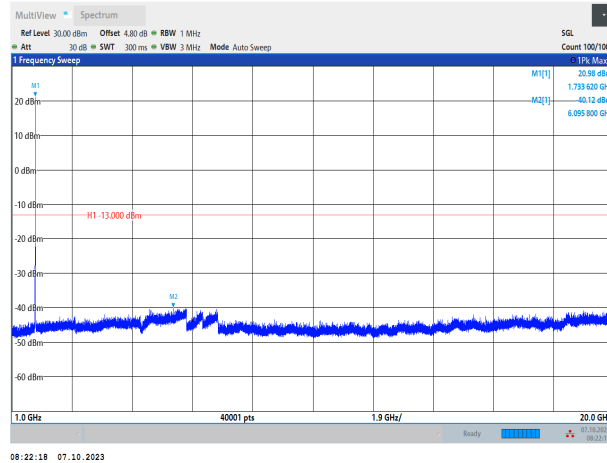


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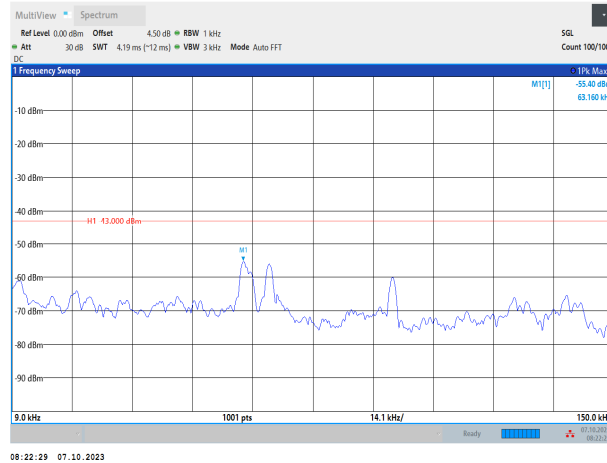
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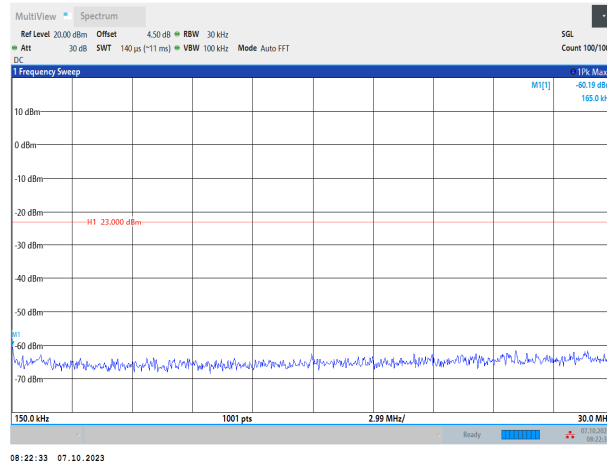
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Band IV-1513-0.15~30MHz



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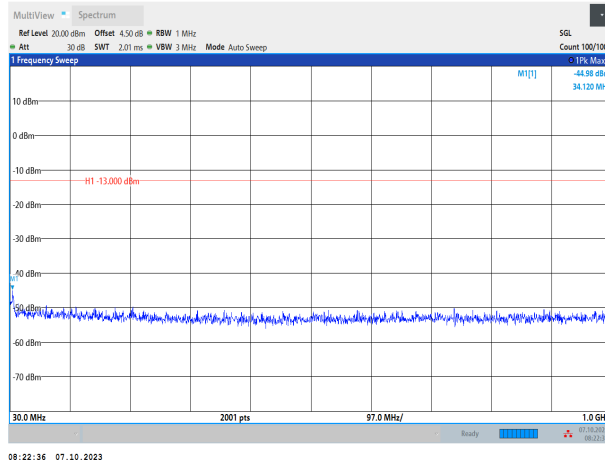
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Band IV-1513-30~1000MHz



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Wireless Laboratory

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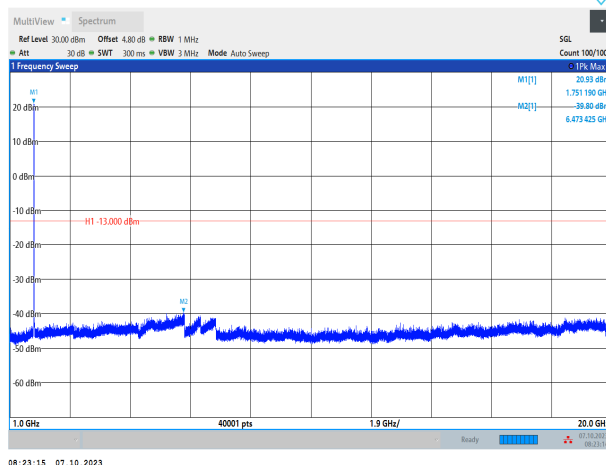


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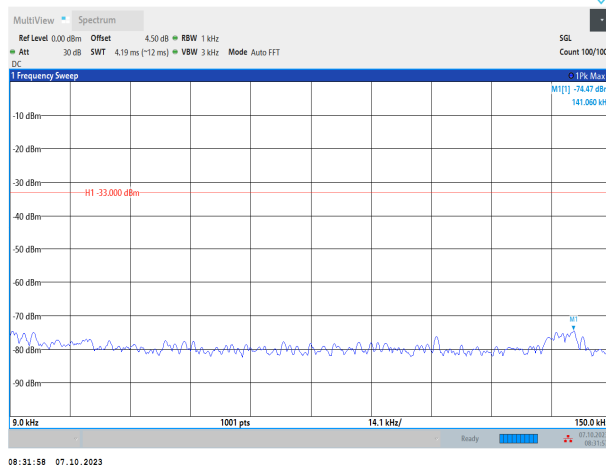
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Band IV-1513-1000~20000MHz



Band V-4132-0.009~0.15MHz



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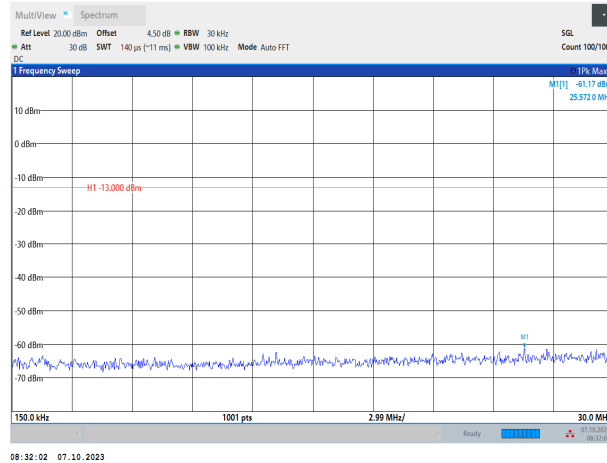


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Band V-4132-0.15~30MHz



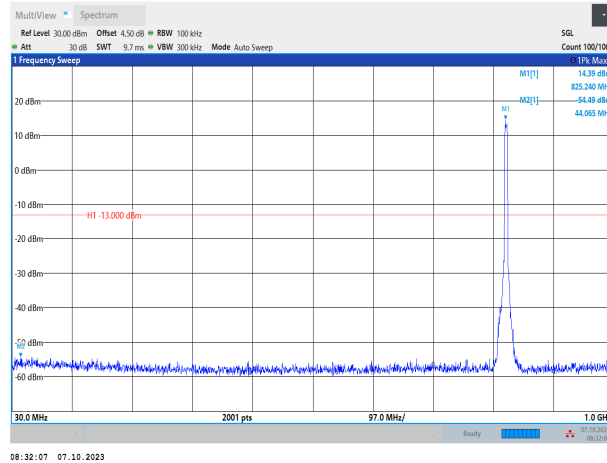
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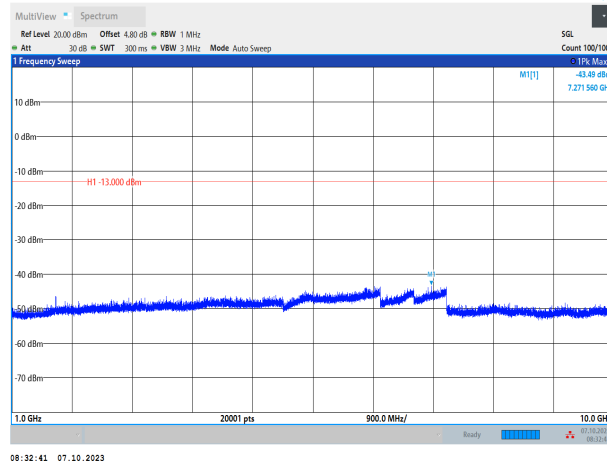
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Band V-4132-30~1000MHz



Band V-4132-1000~10000MHz

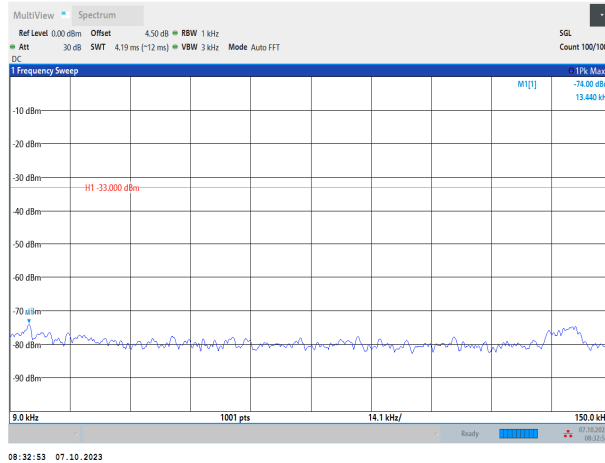


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Band V-4182-0.009~0.15MHz



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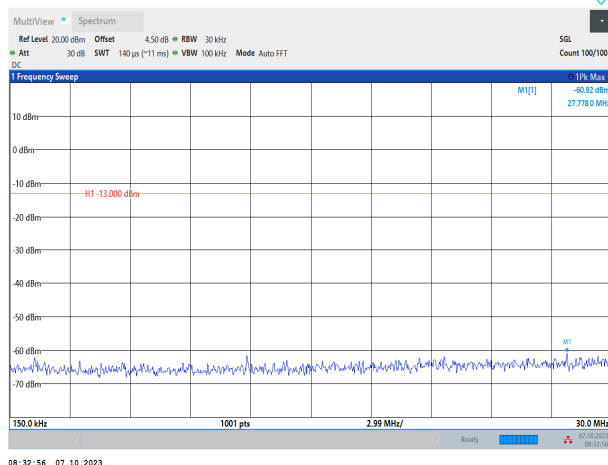


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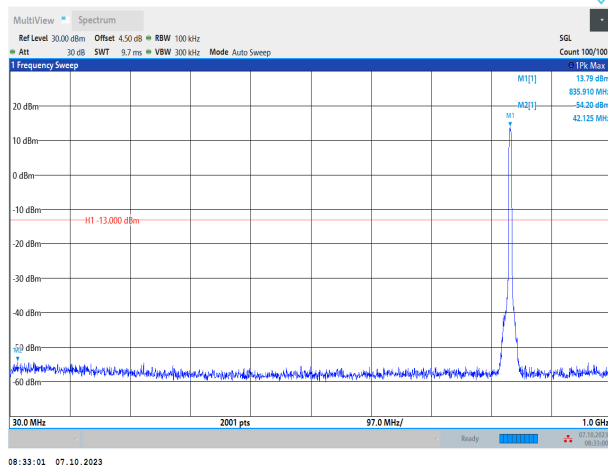
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Band V-4182-0.15~30MHz



Band V-4182-30~1000MHz



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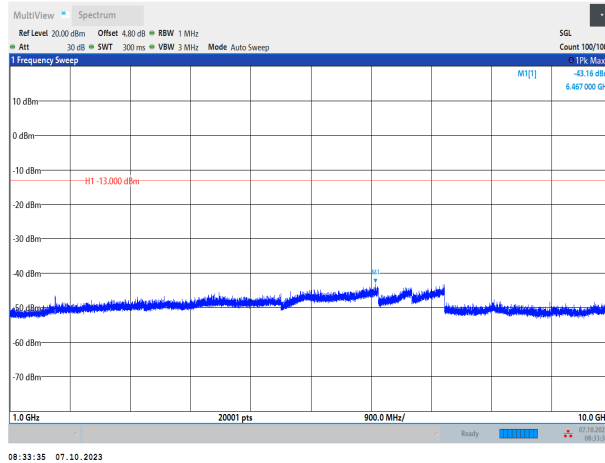
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Band V-4182-1000~10000MHz



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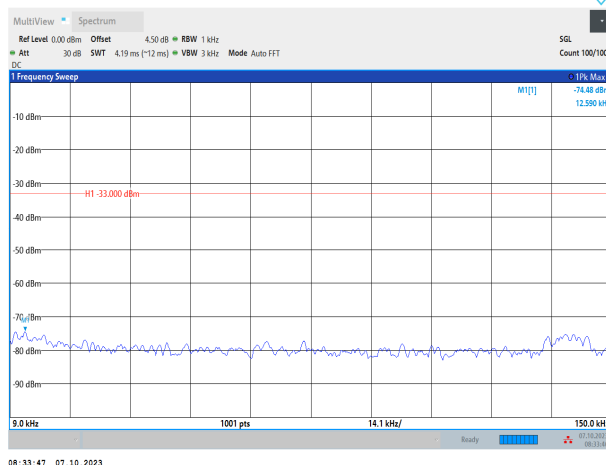


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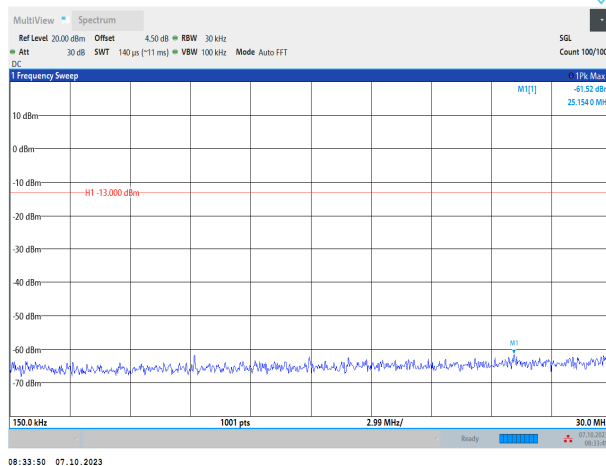
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Band V-4233-0.009~0.15MHz



Band V-4233-0.15~30MHz



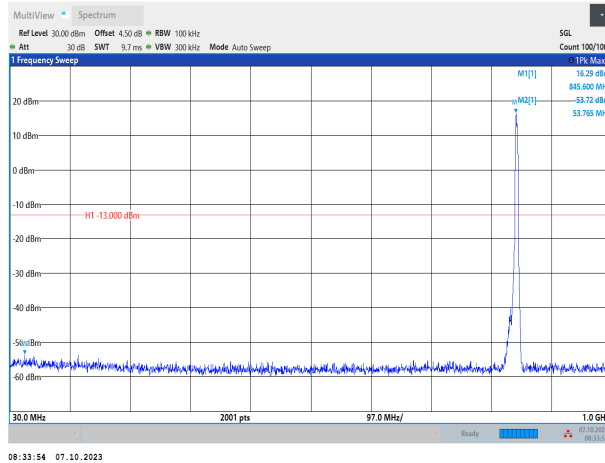
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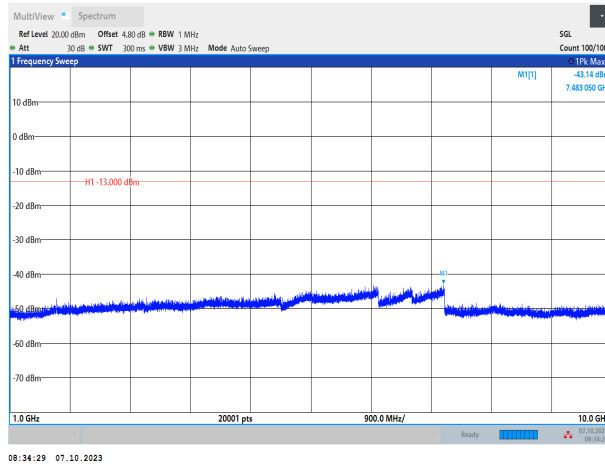
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ 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	3704.8	44.58	-48.49	28.99	-70.19	-13.00	57.19	Horizontal
2	5557.2	44.25	-47.66	32.71	-65.96	-13.00	52.96	Horizontal
3	7409.6	43.06	-46.17	36.58	-61.79	-13.00	48.79	Horizontal
4	9262	40.44	-43.13	37.84	-60.11	-13.00	47.11	Horizontal
5	11114.4	37.20	-40.36	39.38	-59.04	-13.00	46.04	Horizontal
6	12966.8	36.54	-39.40	38.62	-59.50	-13.00	46.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	44.34	-48.49	28.99	-70.43	-13.00	57.43	Vertical
2	5557.2	43.65	-47.66	32.71	-66.56	-13.00	53.56	Vertical
3	7409.6	42.26	-46.17	36.58	-62.59	-13.00	49.59	Vertical
4	9262	39.67	-43.13	37.84	-60.88	-13.00	47.88	Vertical
5	11114.4	37.72	-40.36	39.38	-58.52	-13.00	45.52	Vertical
6	12966.8	36.54	-39.40	38.62	-59.50	-13.00	46.50	Vertical



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Test Band = WCDMA Band II_ 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	3760	43.65	-48.31	29.06	-70.86	-13.00	57.86	Horizontal
2	5640	43.02	-47.62	32.73	-67.13	-13.00	54.13	Horizontal
3	7520	41.35	-45.85	36.78	-62.98	-13.00	49.98	Horizontal
4	9400	39.95	-43.05	37.96	-60.40	-13.00	47.40	Horizontal
5	11280	37.38	-40.44	39.34	-58.97	-13.00	45.97	Horizontal
6	13160	35.97	-38.58	38.97	-58.90	-13.00	45.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	43.76	-48.31	29.06	-70.75	-13.00	57.75	Vertical
2	5640	43.78	-47.62	32.73	-66.37	-13.00	53.37	Vertical
3	7520	41.35	-45.85	36.78	-62.98	-13.00	49.98	Vertical
4	9400	40.46	-43.05	37.96	-59.89	-13.00	46.89	Vertical
5	11280	37.14	-40.44	39.34	-59.21	-13.00	46.21	Vertical
6	13160	36.31	-38.58	38.97	-58.56	-13.00	45.56	Vertical



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Test Band = WCDMA Band II_ 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	3815.2	43.83	-48.20	29.14	-70.49	-13.00	57.49	Horizontal
2	5722.8	43.31	-47.53	32.74	-66.73	-13.00	53.73	Horizontal
3	7630	41.14	-44.77	36.64	-62.24	-13.00	49.24	Horizontal
4	9538	39.88	-42.32	38.08	-59.62	-13.00	46.62	Horizontal
5	11445.6	37.13	-40.07	39.31	-58.89	-13.00	45.89	Horizontal
6	13353.2	36.56	-39.13	39.41	-58.42	-13.00	45.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	43.65	-48.20	29.14	-70.67	-13.00	57.67	Vertical
2	5722.8	43.04	-47.53	32.74	-67.00	-13.00	54.00	Vertical
3	7630	40.85	-44.77	36.64	-62.53	-13.00	49.53	Vertical
4	9538	39.25	-42.32	38.08	-60.25	-13.00	47.25	Vertical
5	11445.6	37.88	-40.07	39.31	-58.14	-13.00	45.14	Vertical
6	13353.2	36.42	-39.13	39.41	-58.56	-13.00	45.56	Vertical



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Test Band = WCDMA Band IV_ 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	3424.8	44.96	-48.38	28.67	-70.01	-13.00	57.01	Horizontal
2	5137.2	43.20	-47.85	31.83	-68.08	-13.00	55.08	Horizontal
3	6849.6	42.63	-46.81	35.27	-64.17	-13.00	51.17	Horizontal
4	8562	40.27	-44.09	36.99	-62.09	-13.00	49.09	Horizontal
5	10274.4	37.85	-41.40	38.75	-60.06	-13.00	47.06	Horizontal
6	11986.8	36.53	-39.49	39.20	-59.02	-13.00	46.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.51	-48.38	28.67	-70.46	-13.00	57.46	Vertical
2	5137.2	43.45	-47.85	31.83	-67.83	-13.00	54.83	Vertical
3	6849.6	43.14	-46.81	35.27	-63.66	-13.00	50.66	Vertical
4	8562	40.01	-44.09	36.99	-62.35	-13.00	49.35	Vertical
5	10274.4	38.07	-41.40	38.75	-59.84	-13.00	46.84	Vertical
6	11986.8	36.76	-39.49	39.20	-58.79	-13.00	45.79	Vertical



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Test Band = WCDMA Band IV_ 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	3465.2	43.97	-48.33	28.69	-70.93	-13.00	57.93	Horizontal
2	5197.8	43.21	-47.89	31.98	-67.96	-13.00	54.96	Horizontal
3	6930.4	42.71	-46.69	35.45	-63.79	-13.00	50.79	Horizontal
4	8663	40.03	-44.06	37.13	-62.17	-13.00	49.17	Horizontal
5	10395.6	38.81	-41.24	38.86	-58.83	-13.00	45.83	Horizontal
6	12128.2	36.86	-39.68	39.12	-58.96	-13.00	45.96	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.46	-48.33	28.69	-70.44	-13.00	57.44	Vertical
2	5197.8	43.30	-47.89	31.98	-67.87	-13.00	54.87	Vertical
3	6930.4	43.58	-46.69	35.45	-62.92	-13.00	49.92	Vertical
4	8663	40.11	-44.06	37.13	-62.09	-13.00	49.09	Vertical
5	10395.6	37.89	-41.24	38.86	-59.75	-13.00	46.75	Vertical
6	12128.2	36.75	-39.68	39.12	-59.07	-13.00	46.07	Vertical



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Test Band = WCDMA Band IV_ 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	3505.2	43.84	-48.29	28.71	-71.00	-13.00	58.00	Horizontal
2	5257.8	44.04	-47.83	32.12	-66.93	-13.00	53.93	Horizontal
3	7010.4	42.81	-46.52	35.63	-63.34	-13.00	50.34	Horizontal
4	8763	40.89	-44.04	37.27	-61.14	-13.00	48.14	Horizontal
5	10515.6	37.82	-40.74	38.96	-59.22	-13.00	46.22	Horizontal
6	12268.2	36.50	-39.76	39.04	-59.48	-13.00	46.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	43.66	-48.29	28.71	-71.18	-13.00	58.18	Vertical
2	5257.8	44.14	-47.83	32.12	-66.83	-13.00	53.83	Vertical
3	7010.4	42.86	-46.52	35.63	-63.29	-13.00	50.29	Vertical
4	8763	40.70	-44.04	37.27	-61.33	-13.00	48.33	Vertical
5	10515.6	38.05	-40.74	38.96	-58.99	-13.00	45.99	Vertical
6	12268.2	36.88	-39.76	39.04	-59.10	-13.00	46.10	Vertical



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Test Band = WCDMA Band V_ 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	1655.1111	55.35	-49.81	25.32	-64.40	-13.00	51.40	Horizontal
2	2479.2	46.00	-49.02	27.28	-71.00	-13.00	58.00	Horizontal
3	3305.6	44.59	-48.63	28.62	-70.68	-13.00	57.68	Horizontal
4	4132	44.01	-48.29	29.64	-69.90	-13.00	56.90	Horizontal
5	4958.4	43.35	-48.05	31.40	-68.56	-13.00	55.56	Horizontal
6	5784.8	43.06	-47.69	32.76	-67.13	-13.00	54.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.6667	56.05	-49.82	25.32	-63.71	-13.00	50.71	Vertical
2	2479.2	44.55	-49.02	27.28	-72.45	-13.00	59.45	Vertical
3	3305.6	44.91	-48.63	28.62	-70.36	-13.00	57.36	Vertical
4	4132	44.67	-48.29	29.64	-69.24	-13.00	56.24	Vertical
5	4958.4	43.35	-48.05	31.40	-68.56	-13.00	55.56	Vertical
6	5784.8	43.65	-47.69	32.76	-66.54	-13.00	53.54	Vertical



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Test Band = WCDMA Band V_ 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	1674.6667	56.29	-49.77	25.40	-63.34	-13.00	50.34	Horizontal
2	2509.2	44.08	-48.93	27.32	-72.78	-13.00	59.78	Horizontal
3	3345.6	44.54	-48.66	28.64	-70.74	-13.00	57.74	Horizontal
4	4182	44.05	-48.34	29.73	-69.82	-13.00	56.82	Horizontal
5	5018.4	43.05	-47.95	31.54	-68.62	-13.00	55.62	Horizontal
6	5854.8	42.93	-47.33	32.77	-66.89	-13.00	53.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1670.6667	57.09	-49.78	25.38	-62.57	-13.00	49.57	Vertical
2	2509.2	44.06	-48.93	27.32	-72.80	-13.00	59.80	Vertical
3	3345.6	44.24	-48.66	28.64	-71.04	-13.00	58.04	Vertical
4	4182	44.40	-48.34	29.73	-69.47	-13.00	56.47	Vertical
5	5018.4	42.82	-47.95	31.54	-68.85	-13.00	55.85	Vertical
6	5854.8	42.96	-47.33	32.77	-66.86	-13.00	53.86	Vertical



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Test Band = WCDMA Band V_ 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	1691.5556	56.47	-49.74	25.47	-63.06	-13.00	50.06	Horizontal
2	2539.8	44.39	-49.01	27.40	-72.48	-13.00	59.48	Horizontal
3	3386.4	44.63	-48.68	28.65	-70.66	-13.00	57.66	Horizontal
4	4233	44.15	-48.25	29.82	-69.54	-13.00	56.54	Horizontal
5	5079.6	43.57	-47.93	31.69	-67.93	-13.00	54.93	Horizontal
6	5926.2	43.52	-47.17	32.79	-66.13	-13.00	53.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5556	56.62	-49.74	25.47	-62.91	-13.00	49.91	Vertical
2	2539.8	44.94	-49.01	27.40	-71.93	-13.00	58.93	Vertical
3	3386.4	44.62	-48.68	28.65	-70.67	-13.00	57.67	Vertical
4	4233	44.36	-48.25	29.82	-69.33	-13.00	56.33	Vertical
5	5079.6	43.79	-47.93	31.69	-67.71	-13.00	54.71	Vertical
6	5926.2	43.57	-47.17	32.79	-66.08	-13.00	53.08	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

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability

Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	2.54	0.001351	PASS
Band II	9400	VN	NT	2.60	0.001383	PASS
Band II	9400	VH	NT	2.75	0.001463	PASS
Band IV	1413	VL	NT	-2.73	-0.001576	PASS
Band IV	1413	VN	NT	-2.85	-0.001645	PASS
Band IV	1413	VH	NT	-1.29	-0.000745	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-0.42	-0.000502	±2.5	PASS
Band V	4182	VN	NT	-0.08	-0.000096	±2.5	PASS
Band V	4182	VH	NT	-0.30	-0.000359	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	2.78	0.001479	PASS
Band II	9400	NV	-20	3.03	0.001612	PASS
Band II	9400	NV	-10	2.91	0.001548	PASS
Band II	9400	NV	0	3.03	0.001612	PASS
Band II	9400	NV	10	2.79	0.001484	PASS
Band II	9400	NV	20	3.35	0.001782	PASS
Band II	9400	NV	30	3.13	0.001665	PASS
Band II	9400	NV	40	2.58	0.001372	PASS
Band II	9400	NV	50	-2.21	-0.001276	PASS
Band IV	1413	NV	-30	-2.27	-0.001310	PASS
Band IV	1413	NV	-20	-2.88	-0.001662	PASS
Band IV	1413	NV	-10	-2.28	-0.001316	PASS
Band IV	1413	NV	0	-2.75	-0.001587	PASS
Band IV	1413	NV	10	-1.87	-0.001079	PASS
Band IV	1413	NV	20	-2.56	-0.001478	PASS
Band IV	1413	NV	30	-2.54	-0.001466	PASS
Band IV	1413	NV	40	2.56	0.001562	PASS
Band IV	1413	NV	50	3.46	0.001759	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-0.09	-0.000108	±2.5	PASS
Band V	4182	NV	-20	0.02	0.000024	±2.5	PASS
Band V	4182	NV	-10	-0.02	-0.000024	±2.5	PASS
Band V	4182	NV	0	-0.04	-0.000048	±2.5	PASS
Band V	4182	NV	10	0.12	0.000143	±2.5	PASS
Band V	4182	NV	20	-0.43	-0.000514	±2.5	PASS
Band V	4182	NV	30	-0.19	-0.000227	±2.5	PASS
Band V	4182	NV	40	-0.08	-0.000096	±2.5	PASS
Band V	4182	NV	50	-0.06	-0.000102	±2.5	PASS

---End of Attachment---



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