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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
BandII	9262	23.48	21.68	33	PASS
BandII	9400	23.54	21.74	33	PASS
BandII	9538	23.35	21.55	33	PASS
BandIV	1312	23.6	21	30	PASS
BandIV	1413	23.57	20.97	30	PASS
BandIV	1513	23.54	20.94	30	PASS

Ant1:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BandV	4132	23.48	17.53	38.5	PASS
BandV	4182	23.57	17.62	38.5	PASS
BandV	4233	23.55	17.6	38.5	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BandIII	9262	2.76	13	PASS
BandIII	9400	2.78	13	PASS
BandIII	9538	2.80	13	PASS
BandIV	1312	2.68	13	PASS
BandIV	1413	2.84	13	PASS
BandIV	1513	2.82	13	PASS
BandV	4132	2.88	13	PASS
BandV	4182	2.96	13	PASS
BandV	4233	2.92	13	PASS



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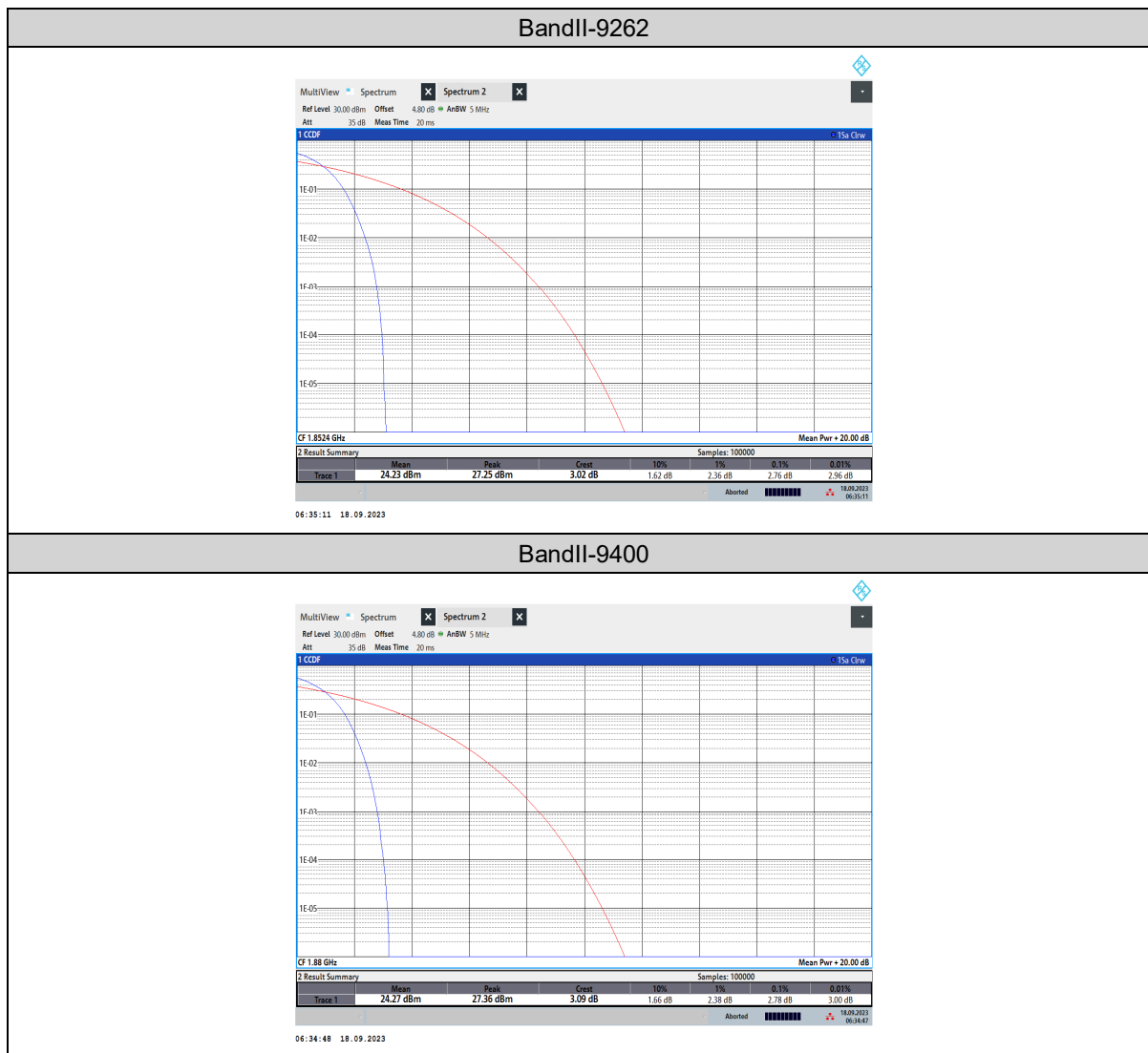
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Test Graphs



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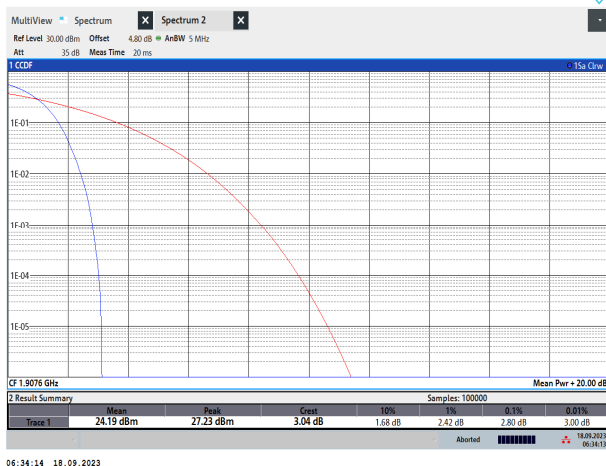
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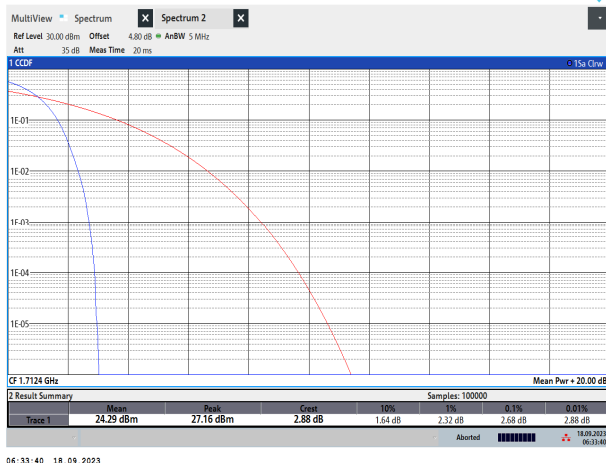
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BandII-9538



BandIV-1312



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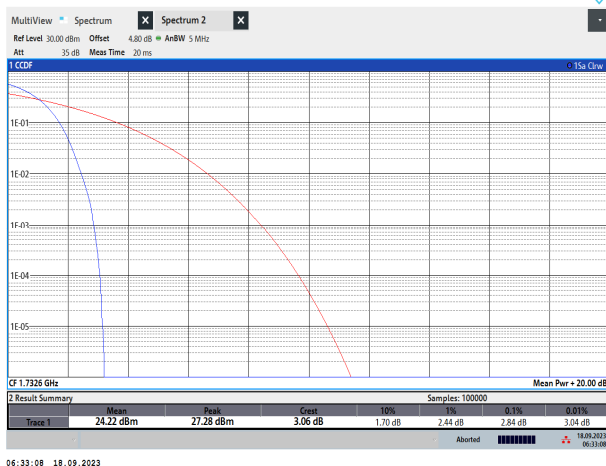
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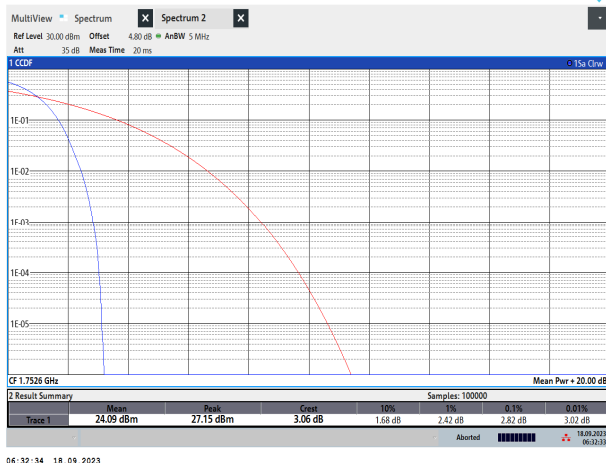
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BandIV-1413



BandIV-1513



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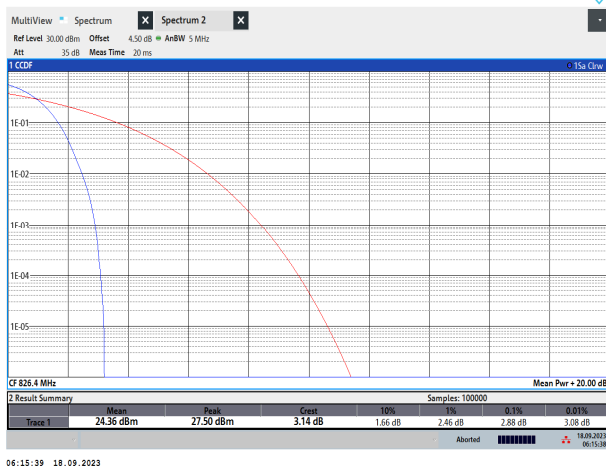
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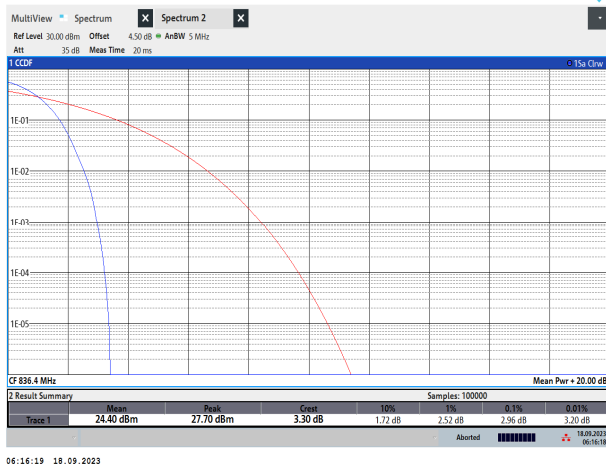
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BandV-4182



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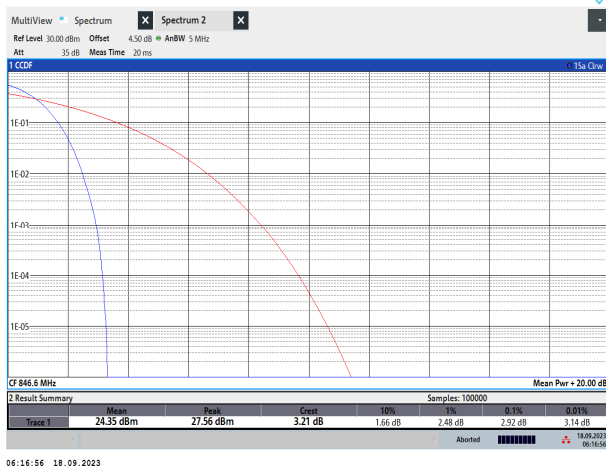
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
BandII	9262	4.165	4.73	---	PASS
BandII	9400	4.172	4.74	---	PASS
BandII	9538	4.171	4.73	---	PASS
BandIV	1312	4.148	4.73	---	PASS
BandIV	1413	4.157	4.74	---	PASS
BandIV	1513	4.145	4.71	---	PASS
BandV	4132	4.148	4.71	---	PASS
BandV	4182	4.144	4.71	---	PASS
BandV	4233	4.145	4.72	---	PASS



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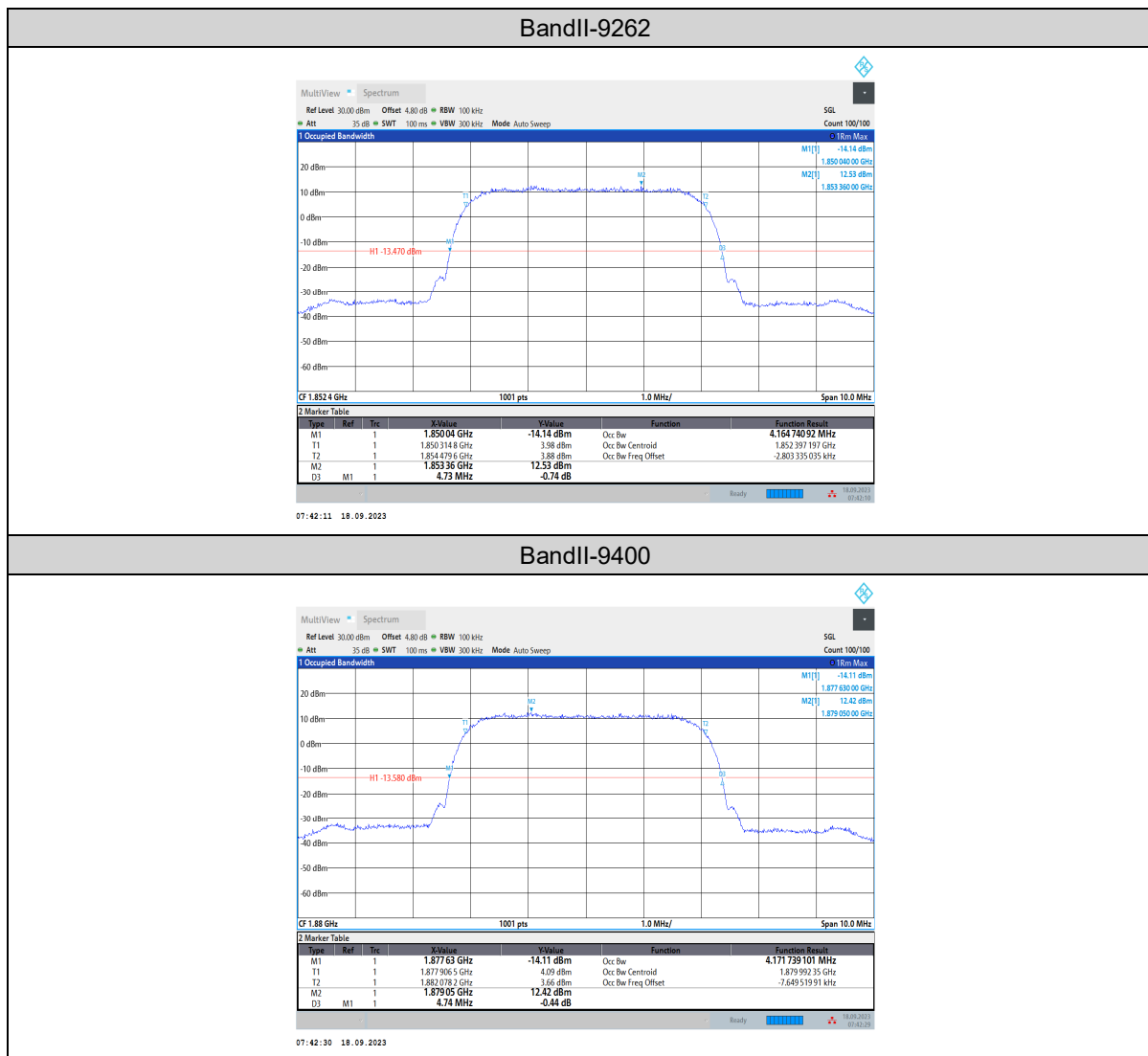
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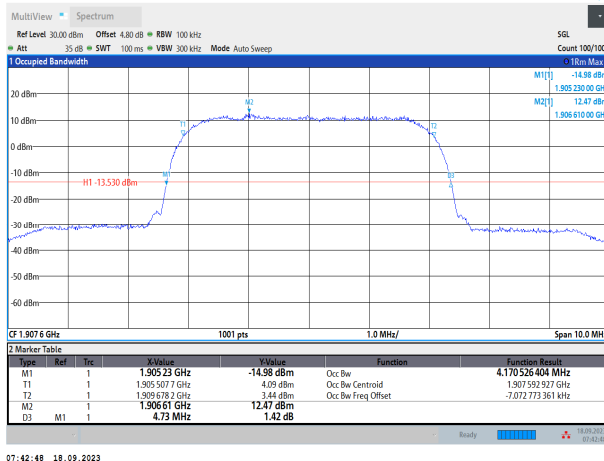
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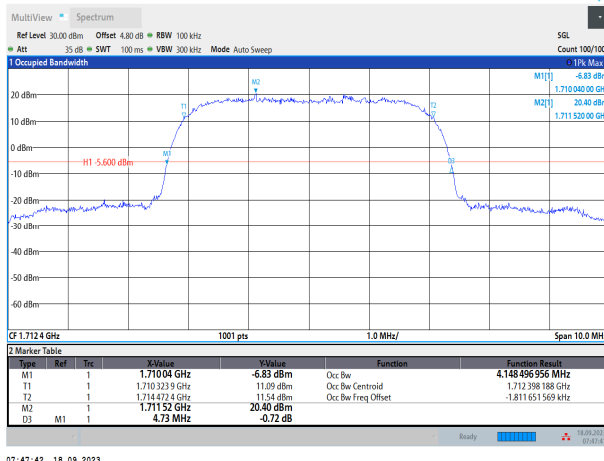
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BandII-9538



BandIV-1312

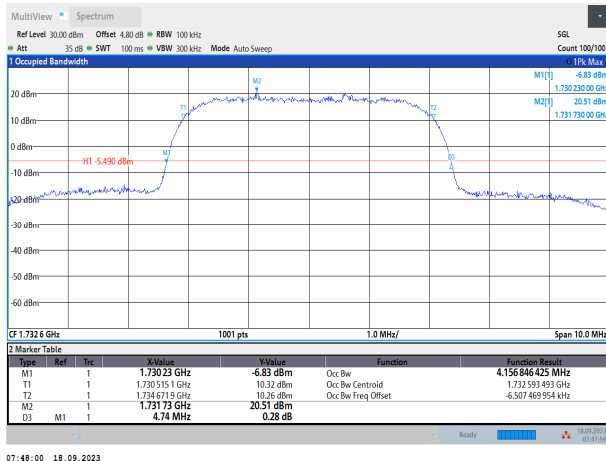


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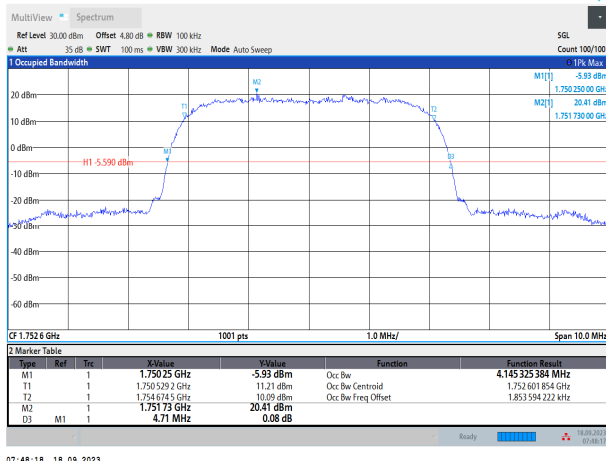
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BandIV-1513



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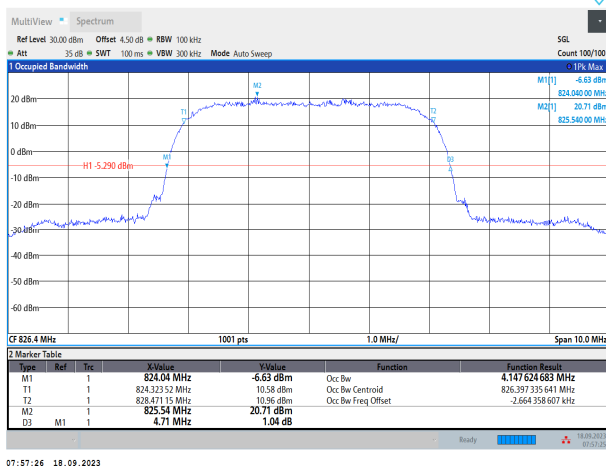
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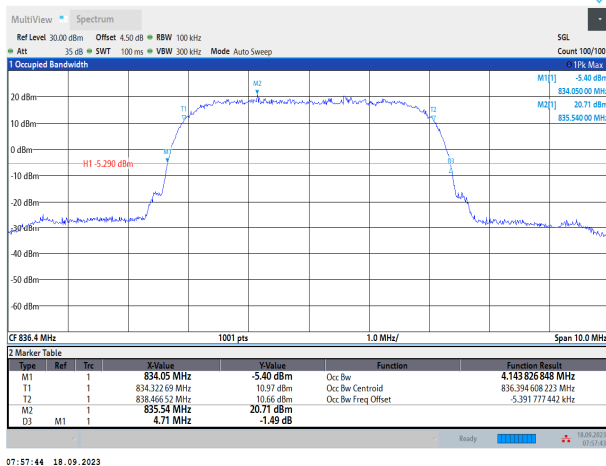
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BandV-4182



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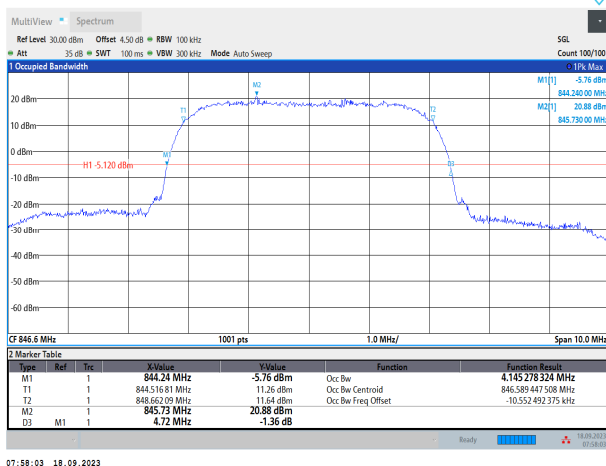
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BandV-4233



07:58:03 18.09.2023



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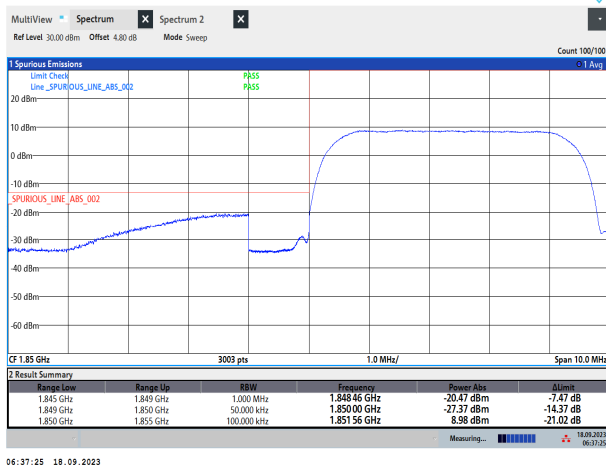
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Band Edge

Test Graphs

BandII-9262



06:37:25 18.09.2023

BandII-9538



06:41:40 18.09.2023

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BandIV-1312



BandIV-1513



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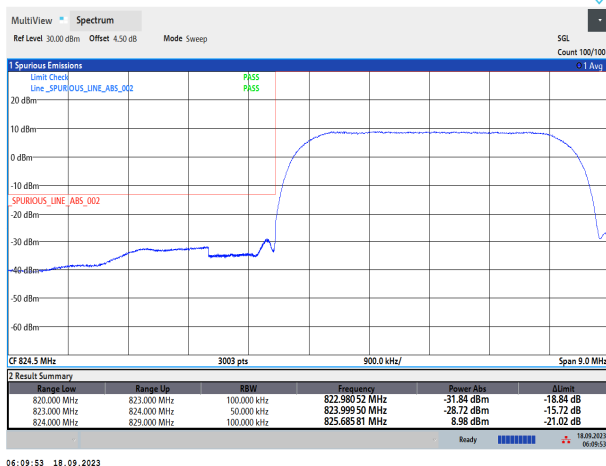
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BandV-4132



BandV-4233



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Conducted Spurious Emission

Test Graphs



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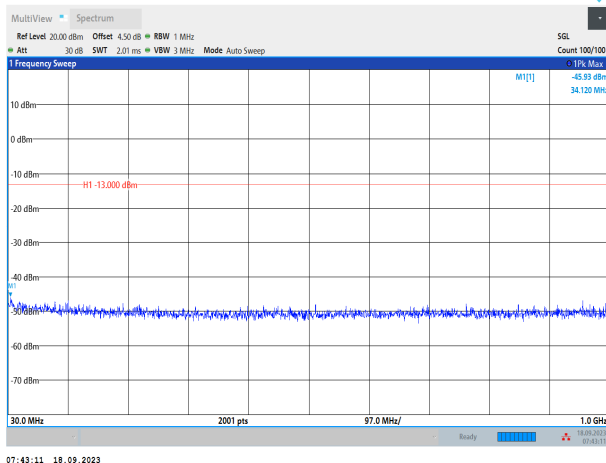
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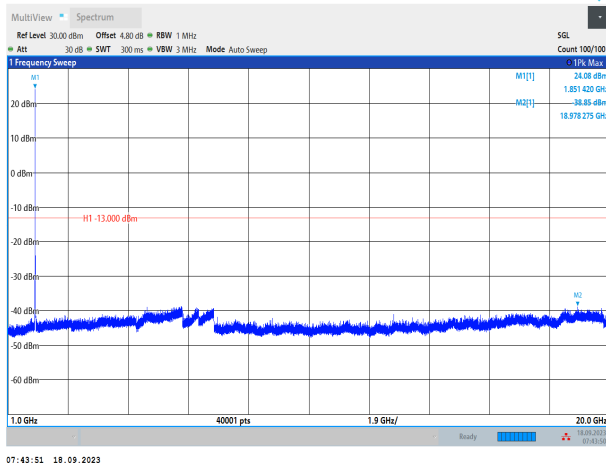
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BandII-9262-30~1000MHz



BandII-9262-1000~20000MHz



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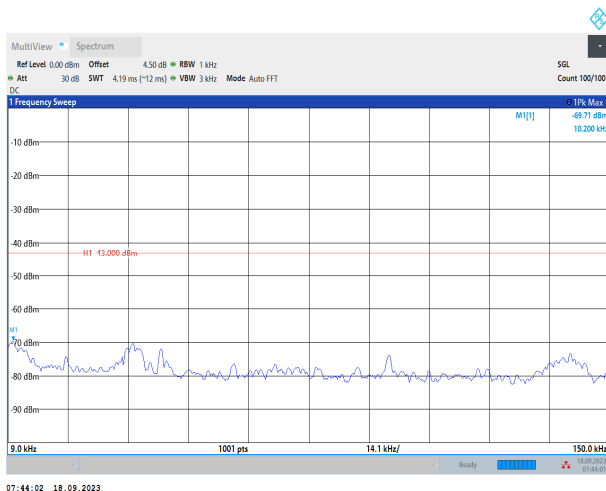
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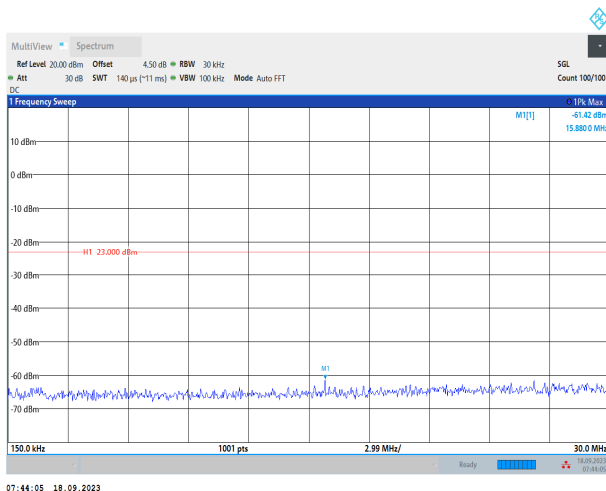
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BandII-9400-0.009~0.15MHz



BandII-9400-0.15~30MHz



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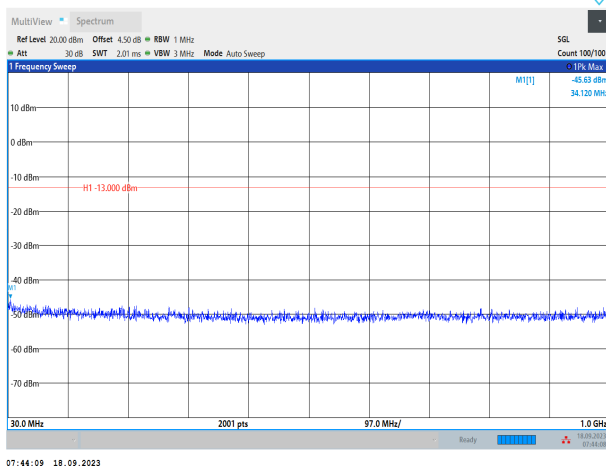
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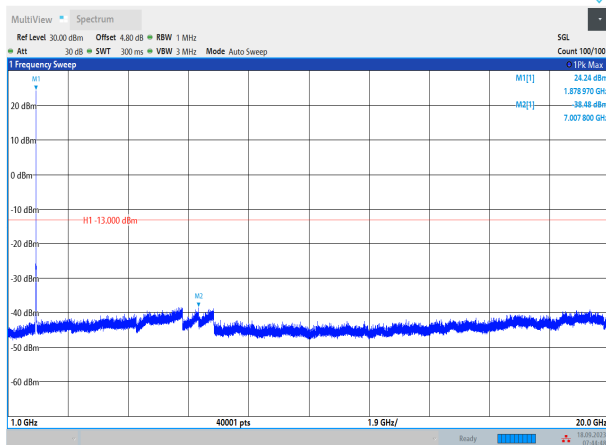
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BandII-9400-1000~20000MHz



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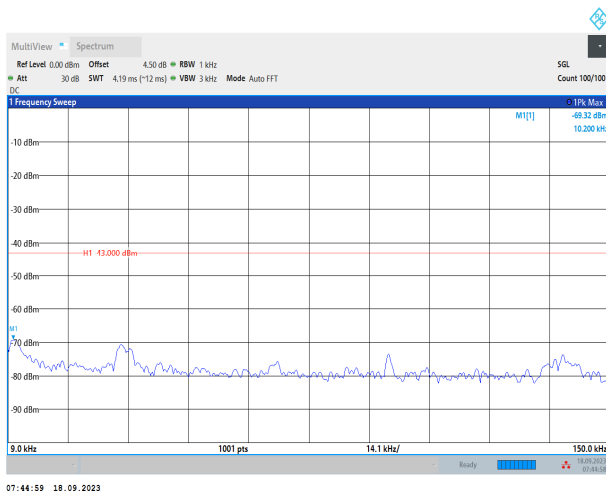
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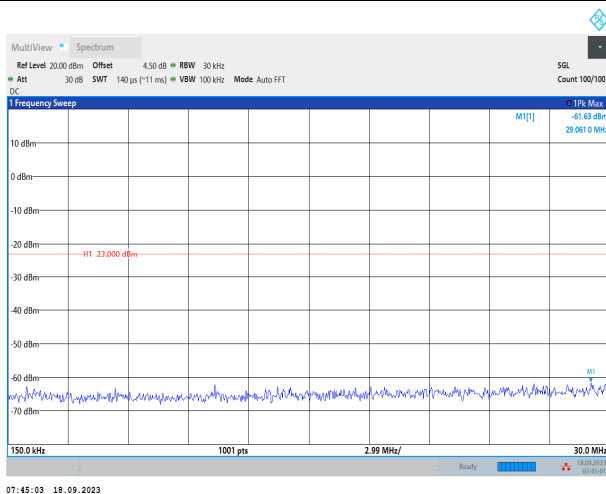
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BandII-9538-0.009~0.15MHz



BandII-9538-0.15~30MHz



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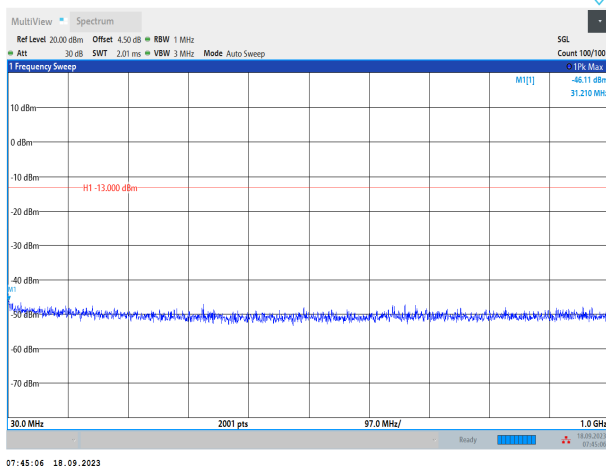
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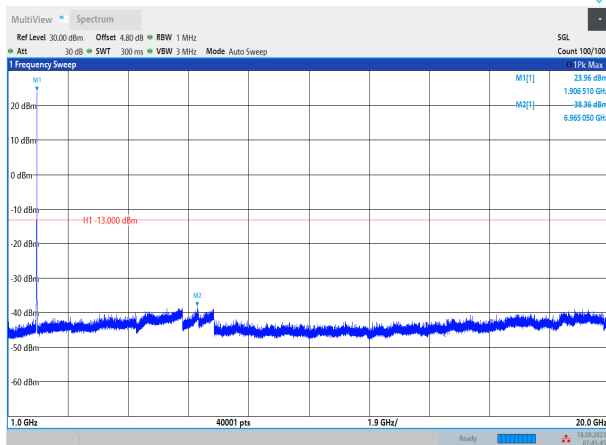
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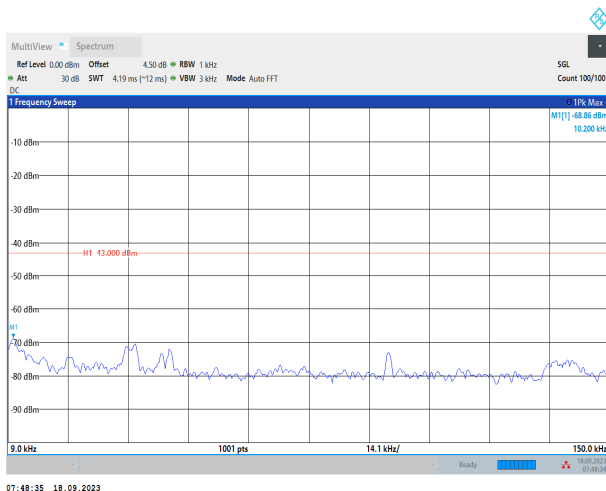
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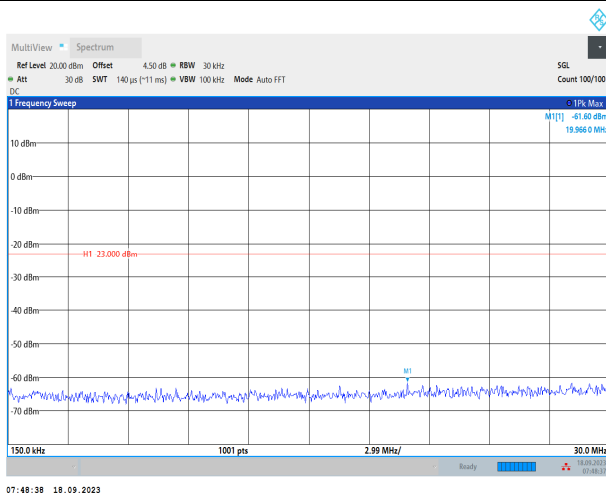
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BandIV-1312-0.009~0.15MHz



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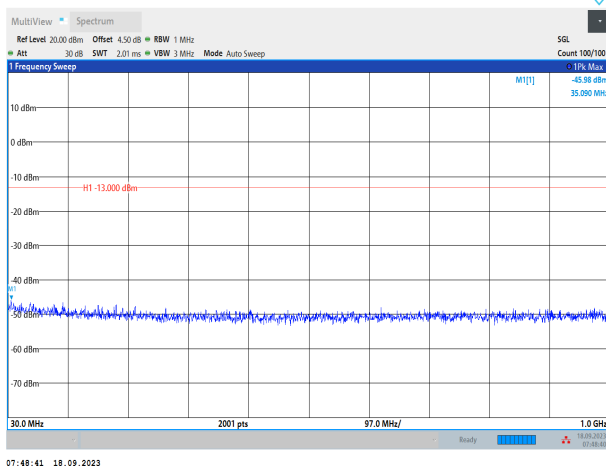
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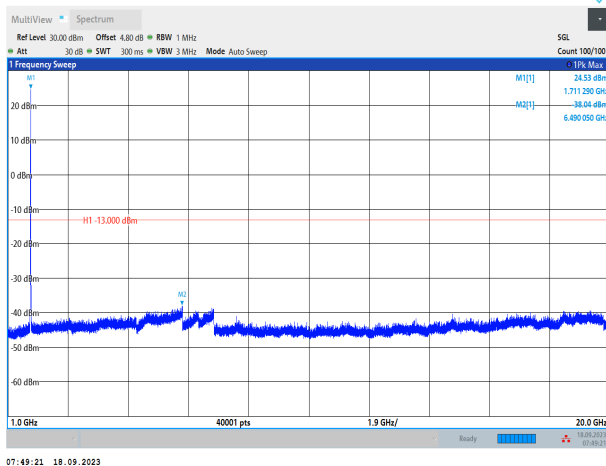
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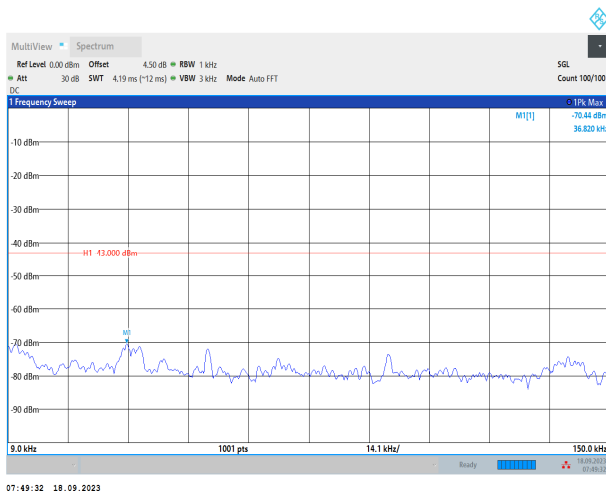
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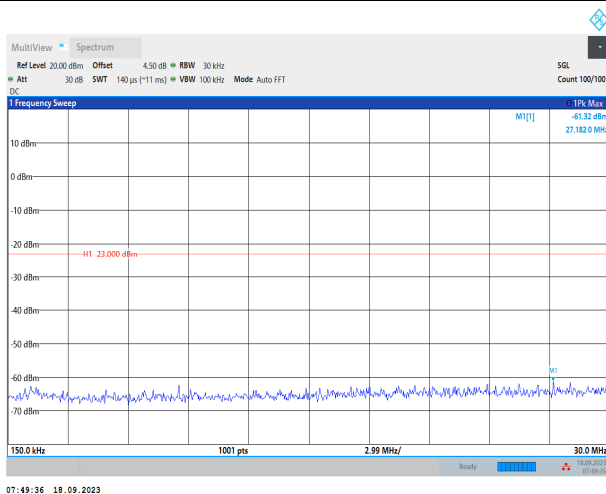
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BandIV-1413-0.009~0.15MHz



BandIV-1413-0.15~30MHz



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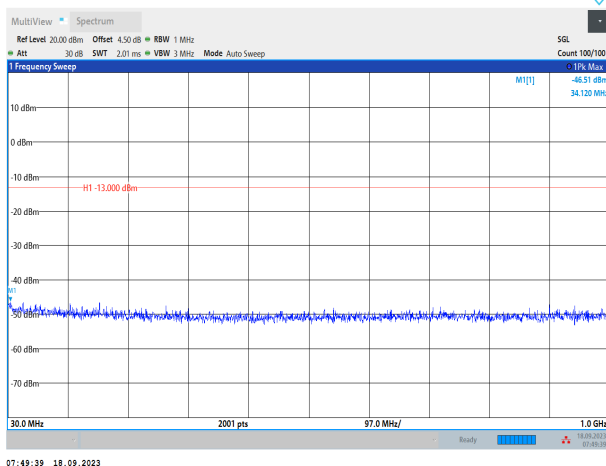
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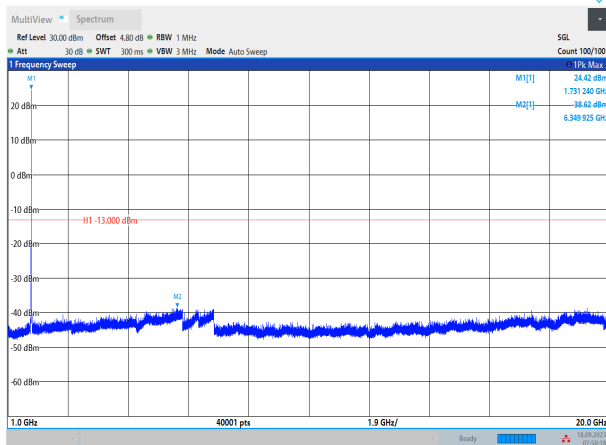
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BandIV-1413-30~1000MHz



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BandIV-1413-1000~20000MHz



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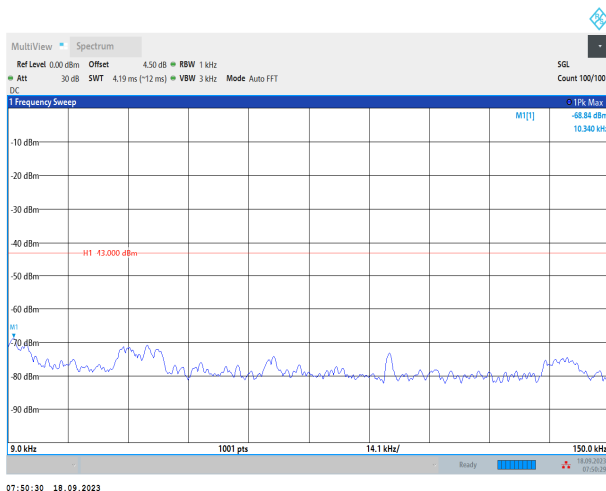
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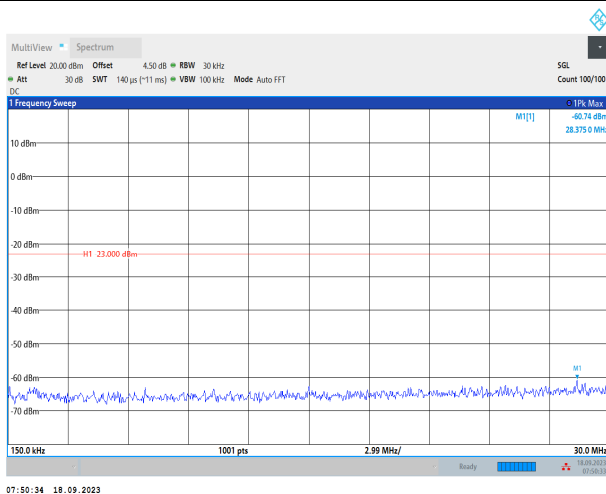
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BandIV-1513-0.009~0.15MHz



BandIV-1513-0.15~30MHz



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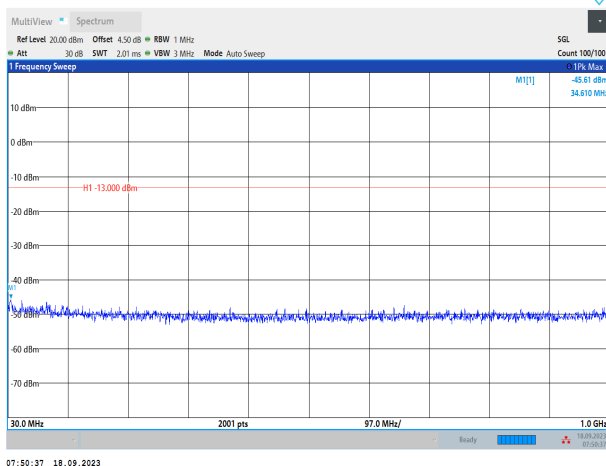
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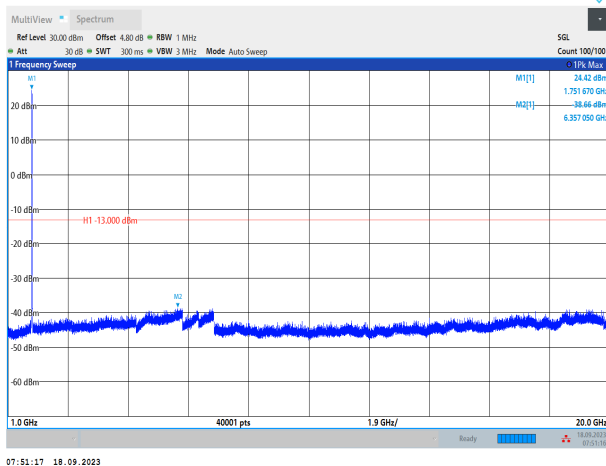
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BandIV-1513-30~1000MHz



BandIV-1513-1000~20000MHz



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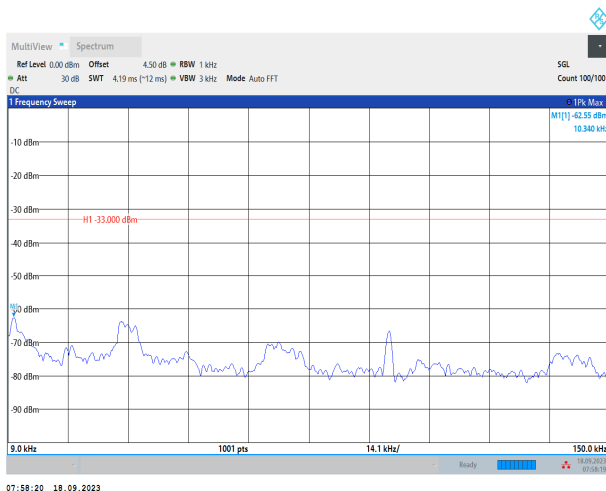
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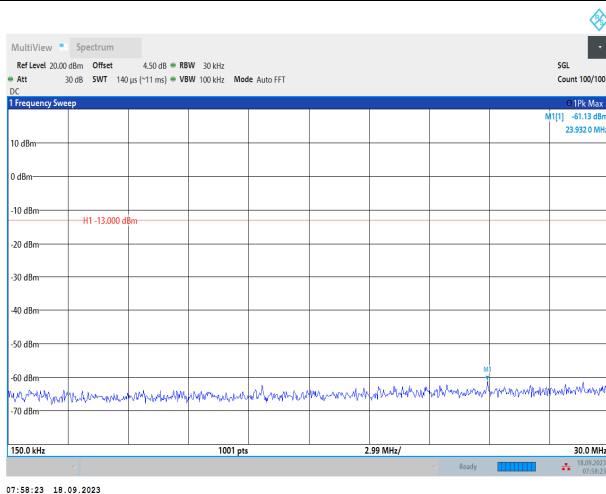
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BandV-4132-0.009~0.15MHz



BandV-4132-0.15~30MHz



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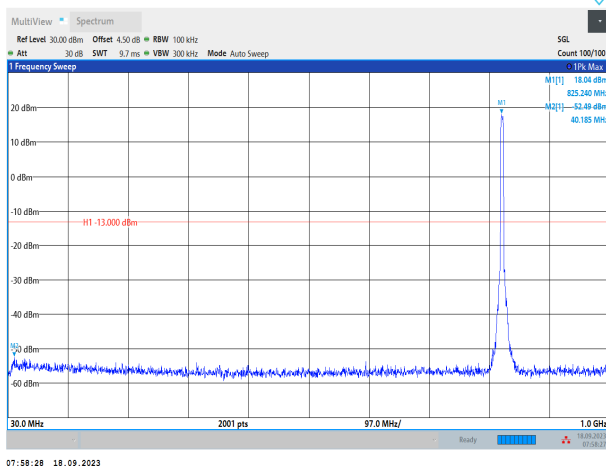
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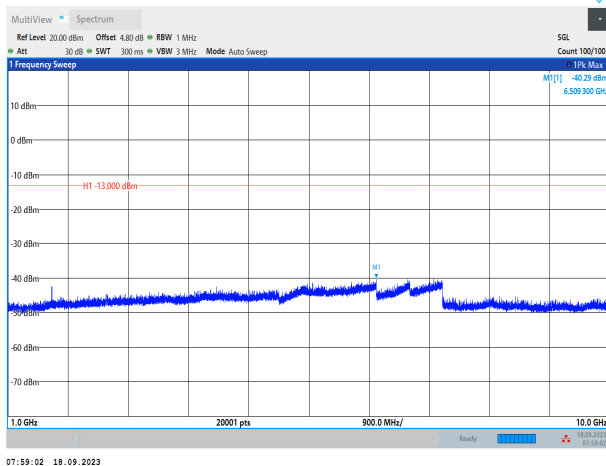
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BandV-4132-30~1000MHz



BandV-4132-1000~10000MHz



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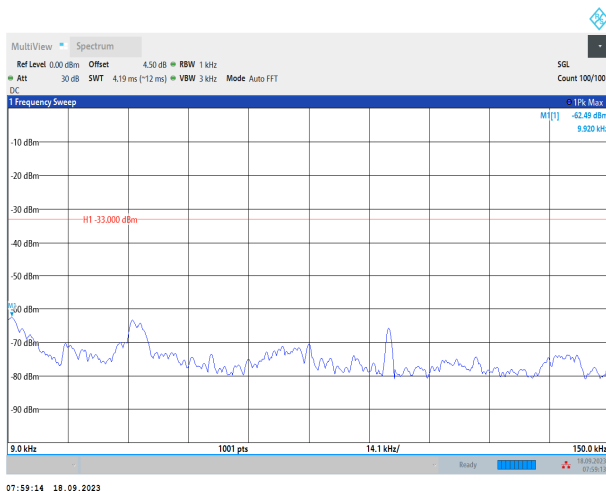
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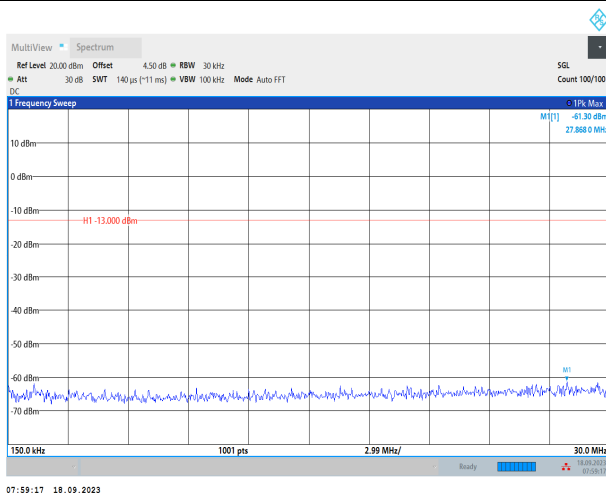
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BandV-4182-0.009~0.15MHz



BandV-4182-0.15~30MHz



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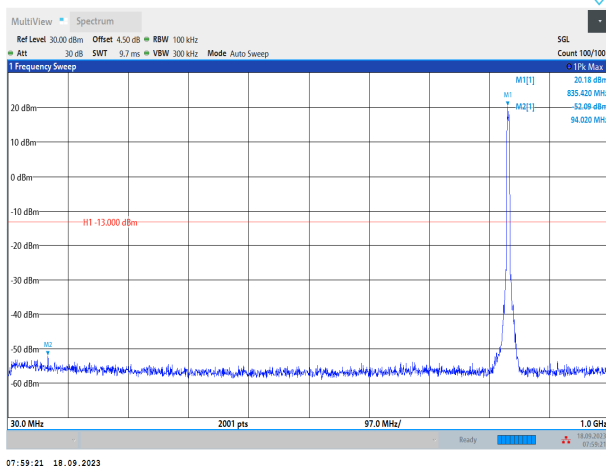
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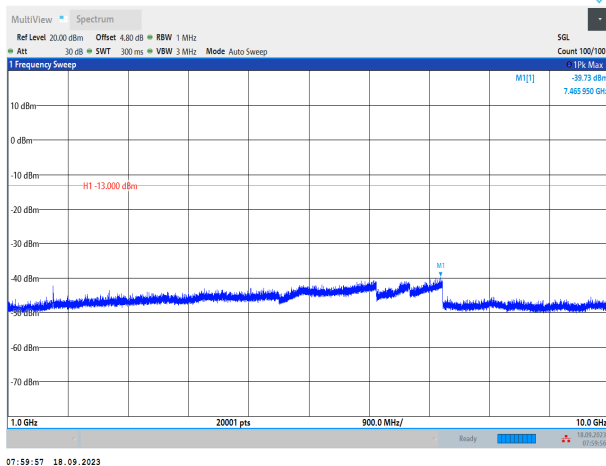
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BandV-4182-30~1000MHz



BandV-4182-1000~10000MHz



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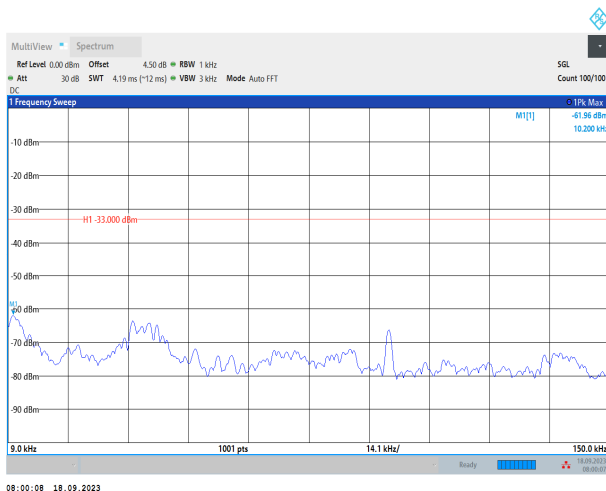
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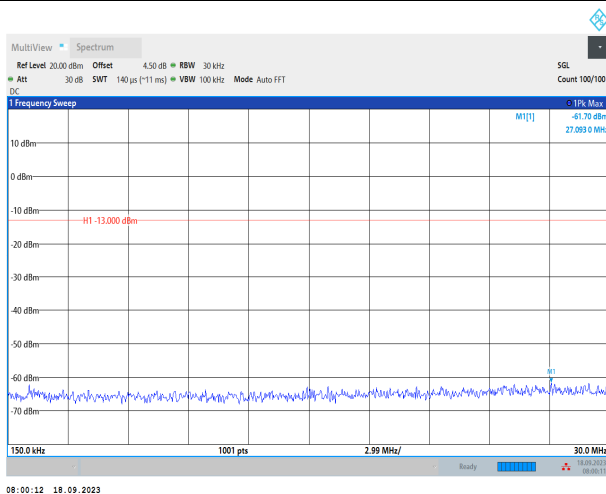
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BandV-4233-0.009~0.15MHz



BandV-4233-0.15~30MHz



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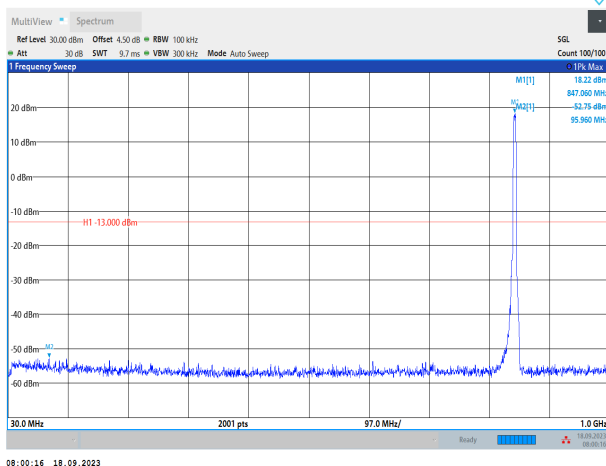
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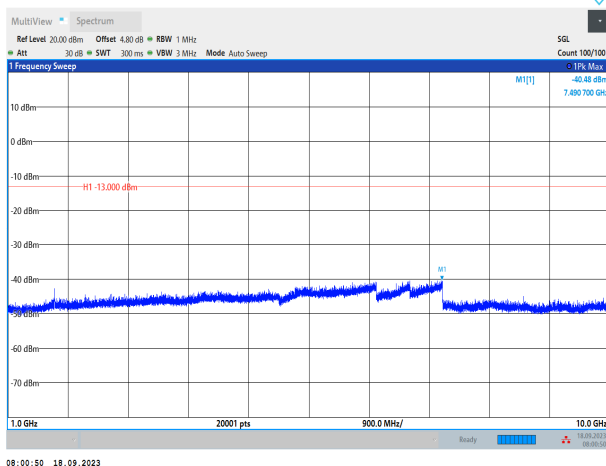
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BandV-4233-30~1000MHz



BandV-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	3704.8000	40.31	-45.52	28.81	-71.67	-13.00	58.67	Horizontal
2	4824	41.02	-45.54	31.01	-68.76	-13.00	55.76	Horizontal
3	5557.2000	39.66	-45.14	32.61	-68.13	-13.00	55.13	Horizontal
4	7409.6000	38.94	-43.38	36.35	-63.36	-13.00	50.36	Horizontal
5	9262.0000	33.46	-40.23	36.80	-65.23	-13.00	52.23	Horizontal
6	11114.4000	29.10	-37.88	38.71	-65.33	-13.00	52.33	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	40.47	-45.52	28.81	-71.51	-13.00	58.51	Vertical
2	5557.2000	39.19	-45.14	32.61	-68.60	-13.00	55.60	Vertical
3	7409.6000	38.25	-43.38	36.35	-64.05	-13.00	51.05	Vertical
4	9262.0000	34.68	-40.23	36.80	-64.01	-13.00	51.01	Vertical
5	11114.4000	29.58	-37.88	38.71	-64.85	-13.00	51.85	Vertical
6	13899.75	28.93	-35.45	40.72	-61.06	-13.00	48.06	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	3760.0000	40.30	-45.75	28.86	-71.85	-13.00	58.85	Horizontal
2	5640.0000	38.65	-44.98	32.63	-68.96	-13.00	55.96	Horizontal
3	7520.0000	37.78	-43.10	36.61	-63.97	-13.00	50.97	Horizontal
4	9400.0000	33.57	-39.83	37.06	-64.46	-13.00	51.46	Horizontal
5	11280.0000	29.83	-37.41	38.73	-64.12	-13.00	51.12	Horizontal
6	13845	30.15	-35.97	40.62	-60.46	-13.00	47.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.35	-45.75	28.86	-71.80	-13.00	58.80	Vertical
2	5640.0000	38.78	-44.98	32.63	-68.83	-13.00	55.83	Vertical
3	7520.0000	37.71	-43.10	36.61	-64.04	-13.00	51.04	Vertical
4	9400.0000	33.98	-39.83	37.06	-64.05	-13.00	51.05	Vertical
5	11280.0000	30.02	-37.41	38.73	-63.93	-13.00	50.93	Vertical
6	13702.5	29.61	-36.17	40.36	-61.45	-13.00	48.45	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	3815.2000	40.59	-45.97	28.92	-71.73	-13.00	58.73	Horizontal
2	5722.8000	38.76	-44.83	32.64	-68.68	-13.00	55.68	Horizontal
3	7630.0000	38.15	-42.99	36.65	-63.45	-13.00	50.45	Horizontal
4	9538.0000	33.51	-40.01	37.32	-64.44	-13.00	51.44	Horizontal
5	11445.6000	30.35	-37.34	38.74	-63.51	-13.00	50.51	Horizontal
6	13878.75	28.70	-35.65	40.68	-61.53	-13.00	48.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	40.71	-45.97	28.92	-71.61	-13.00	58.61	Vertical
2	5722.8000	39.52	-44.83	32.64	-67.92	-13.00	54.92	Vertical
3	7630.0000	37.76	-42.99	36.65	-63.84	-13.00	50.84	Vertical
4	9538.0000	33.19	-40.01	37.32	-64.76	-13.00	51.76	Vertical
5	11445.6000	30.54	-37.34	38.74	-63.32	-13.00	50.32	Vertical
6	13695.75	29.41	-36.16	40.35	-61.65	-13.00	48.65	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	3424.8000	40.83	-46.27	28.56	-72.15	-13.00	59.15	Horizontal
2	5137.2000	39.15	-45.34	31.73	-69.72	-13.00	56.72	Horizontal
3	6849.6000	38.72	-44.14	34.93	-65.75	-13.00	52.75	Horizontal
4	8562.0000	35.46	-41.44	36.52	-64.72	-13.00	51.72	Horizontal
5	10274.4000	31.28	-39.19	38.34	-64.84	-13.00	51.84	Horizontal
6	14280.75	28.66	-35.99	41.01	-61.58	-13.00	48.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	40.85	-46.27	28.56	-72.13	-13.00	59.13	Vertical
2	5137.2000	39.34	-45.34	31.73	-69.53	-13.00	56.53	Vertical
3	6849.6000	38.67	-44.14	34.93	-65.80	-13.00	52.80	Vertical
4	8562.0000	35.28	-41.44	36.52	-64.90	-13.00	51.90	Vertical
5	10274.4000	31.34	-39.19	38.34	-64.78	-13.00	51.78	Vertical
6	14438.25	27.42	-34.82	41.08	-61.58	-13.00	48.58	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	3465.2000	42.26	-46.27	28.58	-70.69	-13.00	57.69	Horizontal
2	5197.8000	39.56	-45.28	31.88	-69.11	-13.00	56.11	Horizontal
3	6930.4000	38.14	-43.93	35.08	-65.98	-13.00	52.98	Horizontal
4	8663.0000	35.33	-41.56	36.47	-65.02	-13.00	52.02	Horizontal
5	10395.6000	30.93	-39.01	38.40	-64.95	-13.00	51.95	Horizontal
6	13851.75	28.43	-35.91	40.63	-62.11	-13.00	49.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	42.02	-46.27	28.58	-70.93	-13.00	57.93	Vertical
2	5197.8000	39.66	-45.28	31.88	-69.01	-13.00	56.01	Vertical
3	6930.4000	38.30	-43.93	35.08	-65.82	-13.00	52.82	Vertical
4	8663.0000	34.75	-41.56	36.47	-65.60	-13.00	52.60	Vertical
5	10395.6000	30.74	-39.01	38.40	-65.14	-13.00	52.14	Vertical
6	14337	27.90	-35.66	41.03	-61.98	-13.00	48.98	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	3505.2000	41.43	-46.25	28.61	-71.48	-13.00	58.48	Horizontal
2	5257.8000	39.46	-45.17	32.02	-68.95	-13.00	55.95	Horizontal
3	7010.4000	38.60	-43.62	35.23	-65.05	-13.00	52.05	Horizontal
4	8763.0000	35.18	-41.41	36.42	-65.07	-13.00	52.07	Horizontal
5	10515.6000	31.65	-38.75	38.46	-63.90	-13.00	50.90	Horizontal
6	14287.5	29.07	-36.05	41.02	-61.23	-13.00	48.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	41.44	-46.25	28.61	-71.47	-13.00	58.47	Vertical
2	4383.75	41.54	-45.77	30.02	-69.47	-13.00	56.47	Vertical
3	5257.8000	39.11	-45.17	32.02	-69.30	-13.00	56.30	Vertical
4	7010.4000	39.05	-43.62	35.23	-64.60	-13.00	51.60	Vertical
5	8763.0000	35.74	-41.41	36.42	-64.51	-13.00	51.51	Vertical
6	10515.6000	31.13	-38.75	38.46	-64.42	-13.00	51.42	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	1276.5714	45.12	-48.23	25.16	-73.21	-13.00	60.21	Horizontal
2	1652.8000	43.31	-48.22	25.28	-74.89	-13.00	61.89	Horizontal
3	2479.2000	43.06	-47.31	27.24	-72.26	-13.00	59.26	Horizontal
4	3305.6000	42.17	-46.67	28.48	-71.28	-13.00	58.28	Horizontal
5	4132.0000	40.69	-45.92	29.42	-71.07	-13.00	58.07	Horizontal
6	4958.4000	41.39	-45.72	31.31	-68.28	-13.00	55.28	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1489.1429	44.56	-48.29	25.14	-73.84	-13.00	60.84	Vertical
2	1652.8000	43.22	-48.22	25.28	-74.98	-13.00	61.98	Vertical
3	2479.2000	42.60	-47.31	27.24	-72.72	-13.00	59.72	Vertical
4	3305.6000	42.15	-46.67	28.48	-71.30	-13.00	58.30	Vertical
5	4132.0000	40.97	-45.92	29.42	-70.79	-13.00	57.79	Vertical
6	4958.4000	41.37	-45.72	31.31	-68.30	-13.00	55.30	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	1314.8571	45.14	-48.11	25.14	-73.09	-13.00	60.09	Horizontal
2	1672.8000	43.59	-48.19	25.31	-74.55	-13.00	61.55	Horizontal
3	2509.2000	42.59	-47.24	27.32	-72.59	-13.00	59.59	Horizontal
4	3345.6000	42.02	-46.62	28.51	-71.35	-13.00	58.35	Horizontal
5	4182.0000	40.24	-45.95	29.54	-71.43	-13.00	58.43	Horizontal
6	5018.4000	41.00	-45.73	31.45	-68.54	-13.00	55.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1196.5714	44.77	-48.56	25.20	-73.85	-13.00	60.85	Vertical
2	1672.8000	43.53	-48.19	25.31	-74.61	-13.00	61.61	Vertical
3	2509.2000	42.43	-47.24	27.32	-72.75	-13.00	59.75	Vertical
4	3345.6000	42.88	-46.62	28.51	-70.49	-13.00	57.49	Vertical
5	4182.0000	40.65	-45.95	29.54	-71.02	-13.00	58.02	Vertical
6	5018.4000	40.16	-45.73	31.45	-69.38	-13.00	56.38	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	1458.8571	44.87	-48.19	25.13	-73.45	-13.00	60.45	Horizontal
2	1693.2000	43.58	-48.17	25.34	-74.51	-13.00	61.51	Horizontal
3	2539.8000	42.56	-47.13	27.38	-72.45	-13.00	59.45	Horizontal
4	3386.4000	41.98	-46.56	28.53	-71.31	-13.00	58.31	Horizontal
5	4233.0000	40.79	-45.90	29.66	-70.71	-13.00	57.71	Horizontal
6	5079.6000	39.52	-45.47	31.59	-69.61	-13.00	56.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.2857	45.19	-48.05	25.12	-73.00	-13.00	60.00	Vertical
2	1693.2000	43.04	-48.17	25.34	-75.05	-13.00	62.05	Vertical
3	2539.8000	42.59	-47.13	27.38	-72.42	-13.00	59.42	Vertical
4	3386.4000	41.87	-46.56	28.53	-71.42	-13.00	58.42	Vertical
5	4233.0000	41.02	-45.90	29.66	-70.48	-13.00	57.48	Vertical
6	5079.6000	39.72	-45.47	31.59	-69.41	-13.00	56.41	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	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	VL	NT	1.46	0.000777	PASS
BandII	9400	VN	NT	0.70	0.000372	PASS
BandII	9400	VH	NT	-2.08	-0.001106	PASS
BandIV	1413	VL	NT	0.42	0.000242	PASS
BandIV	1413	VN	NT	0.49	0.000283	PASS
BandIV	1413	VH	NT	1.31	0.000756	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VL	NT	-0.79	-0.000945	±2.5	PASS
BandV	4182	VN	NT	-0.92	-0.001100	±2.5	PASS
BandV	4182	VH	NT	-1.62	-0.001937	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	2.64	0.001404	PASS
BandII	9400	NV	-20	0.82	0.000436	PASS
BandII	9400	NV	-10	1.25	0.000665	PASS
BandII	9400	NV	0	1.83	0.000973	PASS
BandII	9400	NV	10	2.20	0.001170	PASS
BandII	9400	NV	20	2.57	0.001367	PASS
BandII	9400	NV	30	2.15	0.001144	PASS
BandII	9400	NV	40	2.25	0.001197	PASS
BandII	9400	NV	50	2.26	0.001563	PASS
BandIV	1413	NV	-30	1.92	0.001108	PASS
BandIV	1413	NV	-20	0.49	0.000283	PASS
BandIV	1413	NV	-10	0.89	0.000514	PASS
BandIV	1413	NV	0	1.82	0.001050	PASS
BandIV	1413	NV	10	0.43	0.000248	PASS
BandIV	1413	NV	20	1.28	0.000739	PASS
BandIV	1413	NV	30	0.72	0.000416	PASS
BandIV	1413	NV	40	0.94	0.000543	PASS
BandIV	1413	NV	50	1.63	0.001635	PASS



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Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	-0.54	-0.000646	±2.5	PASS
BandV	4182	NV	-20	-0.92	-0.001100	±2.5	PASS
BandV	4182	NV	-10	-0.63	-0.001242	±2.5	PASS
BandV	4182	NV	0	-0.79	-0.000945	±2.5	PASS
BandV	4182	NV	10	-0.34	-0.000407	±2.5	PASS
BandV	4182	NV	20	-0.24	-0.000287	±2.5	PASS
BandV	4182	NV	30	-0.41	-0.000490	±2.5	PASS
BandV	4182	NV	40	-0.06	-0.000072	±2.5	PASS
BandV	4182	NV	50	-0.19	-0.000227	±2.5	PASS

---End of Attachment---



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