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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
Band II	9262	23.62	24.62	33	PASS
Band II	9400	23.61	24.61	33	PASS
Band II	9538	23.54	24.54	33	PASS
Band IV	1312	23.68	23.58	30	PASS
Band IV	1413	23.59	23.49	30	PASS
Band IV	1513	23.48	23.58	30	PASS

ANT1

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.72	19.47	38.5	PASS
Band V	4182	23.72	19.47	38.5	PASS
Band V	4233	23.74	19.49	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	2.82	13	PASS
Band II	9400	2.80	13	PASS
Band II	9538	2.82	13	PASS
Band IV	1312	2.70	13	PASS
Band IV	1413	2.80	13	PASS
Band IV	1513	2.80	13	PASS
Band V	4132	2.86	13	PASS
Band V	4182	2.92	13	PASS
Band V	4233	2.92	13	PASS



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Test Graphs



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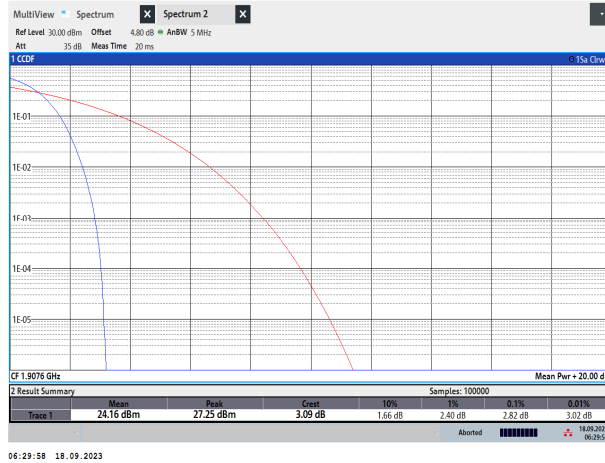
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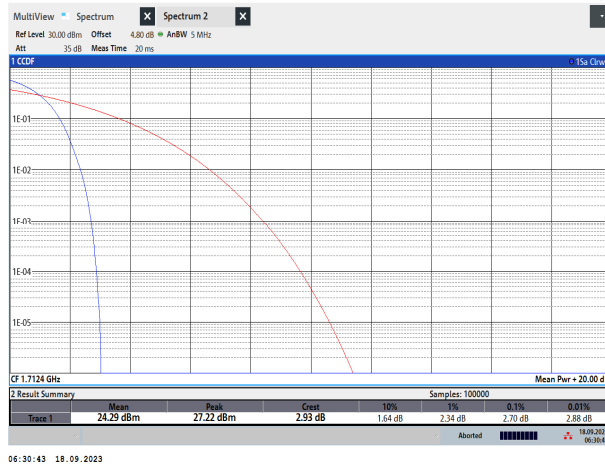
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Band II-9538



Band IV-1312



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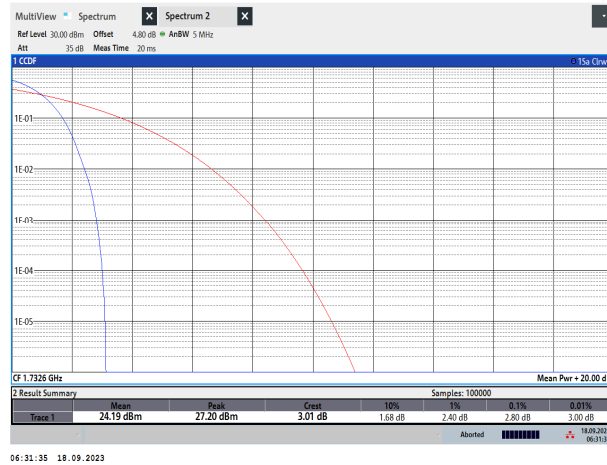
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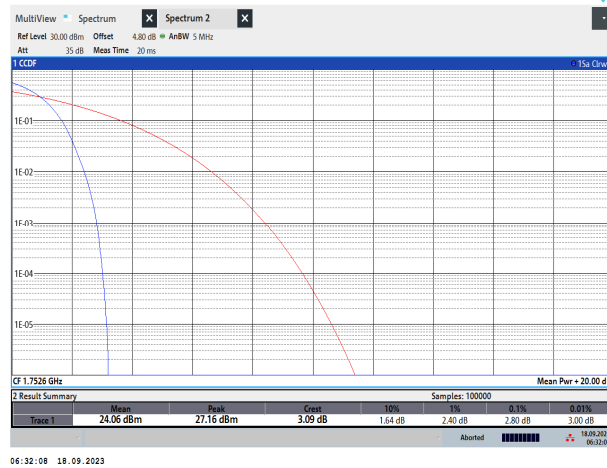
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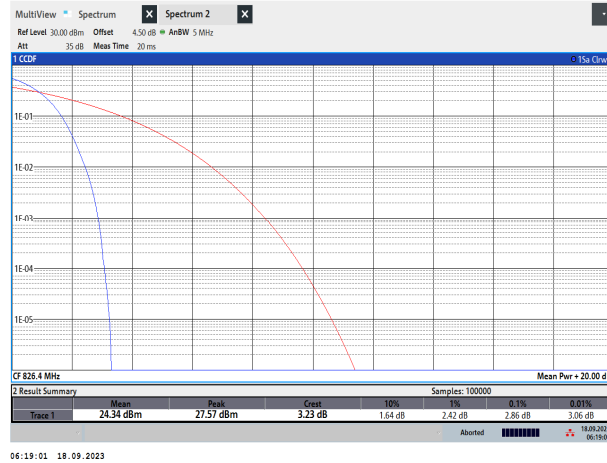
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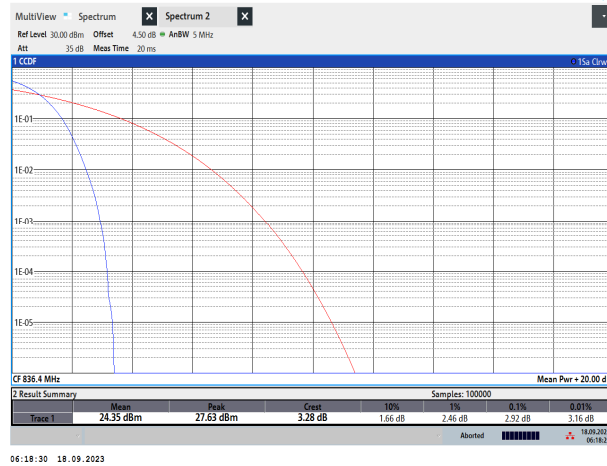
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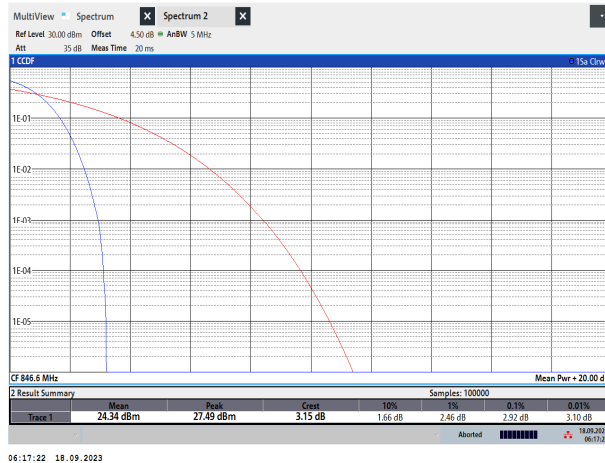


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band II	9262	4.171	4.75	---	PASS
Band II	9400	4.173	4.74	---	PASS
Band II	9538	4.171	4.73	---	PASS
Band IV	1312	4.147	4.73	---	PASS
Band IV	1413	4.152	4.72	---	PASS
Band IV	1513	4.142	4.71	---	PASS
Band V	4132	4.15	4.73	---	PASS
Band V	4182	4.155	4.72	---	PASS
Band V	4233	4.152	4.71	---	PASS



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Test Graphs

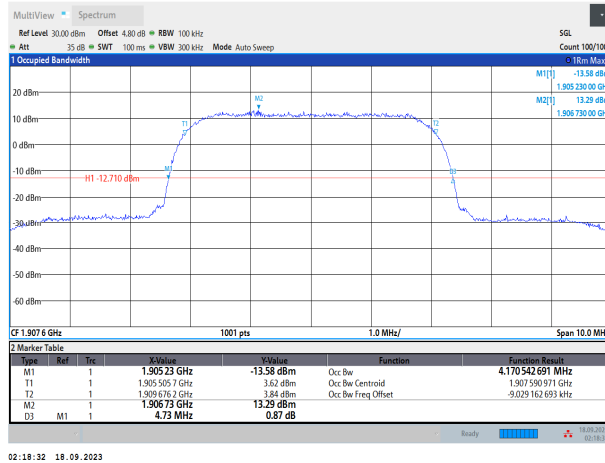


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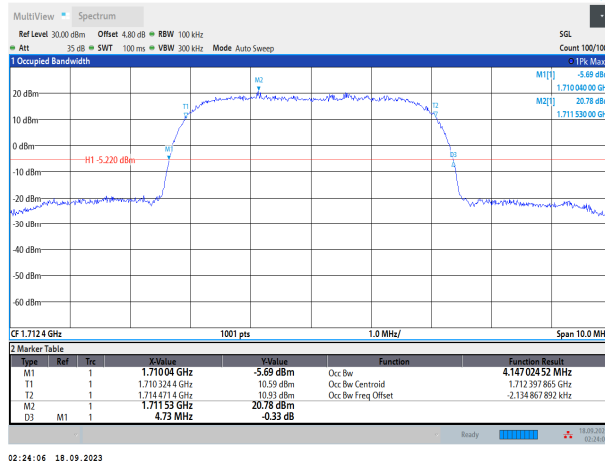
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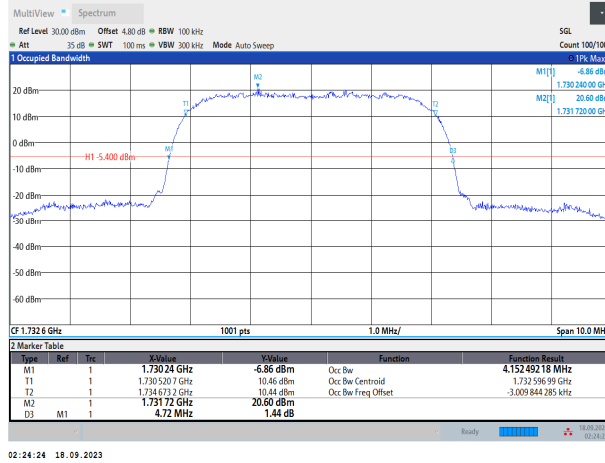
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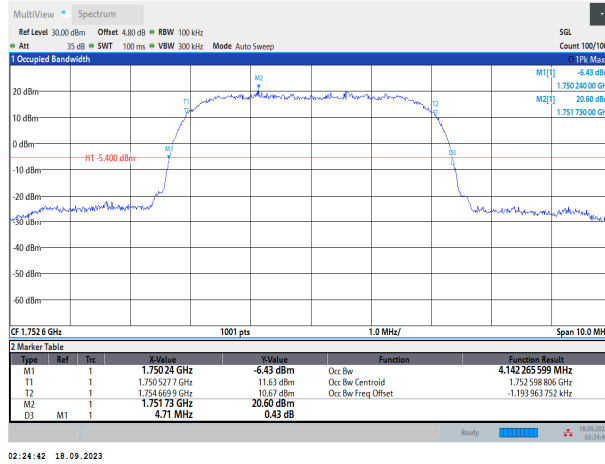
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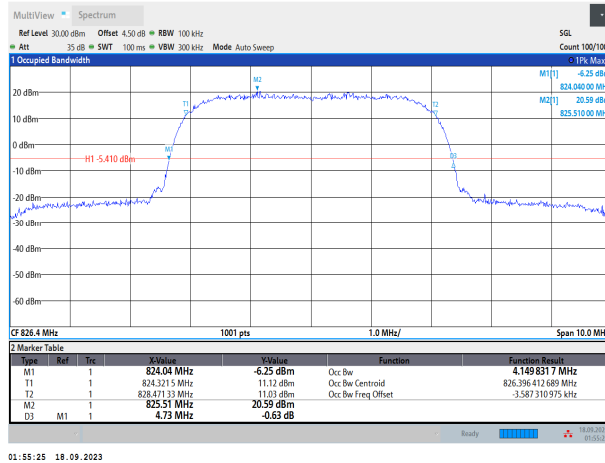
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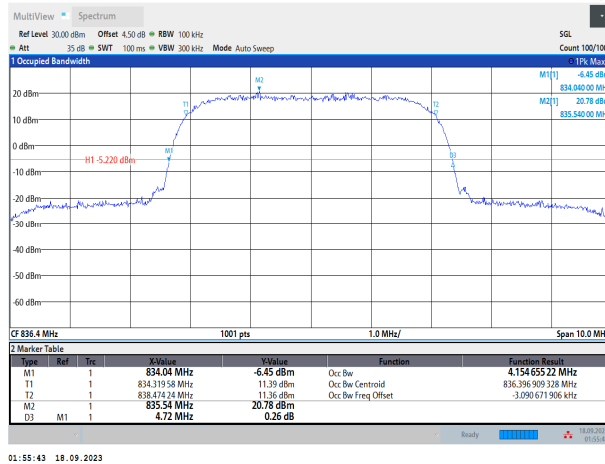
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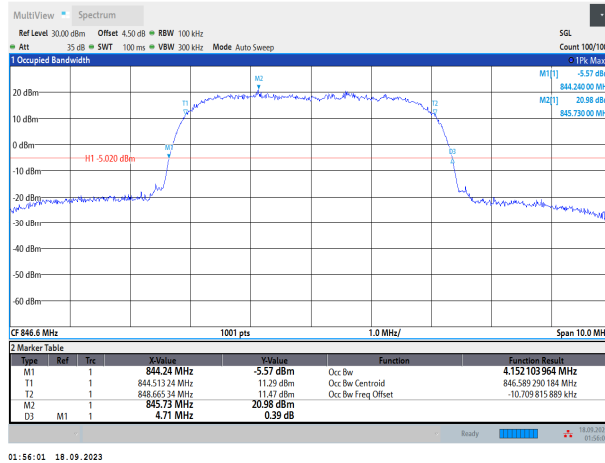
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Band V-4233



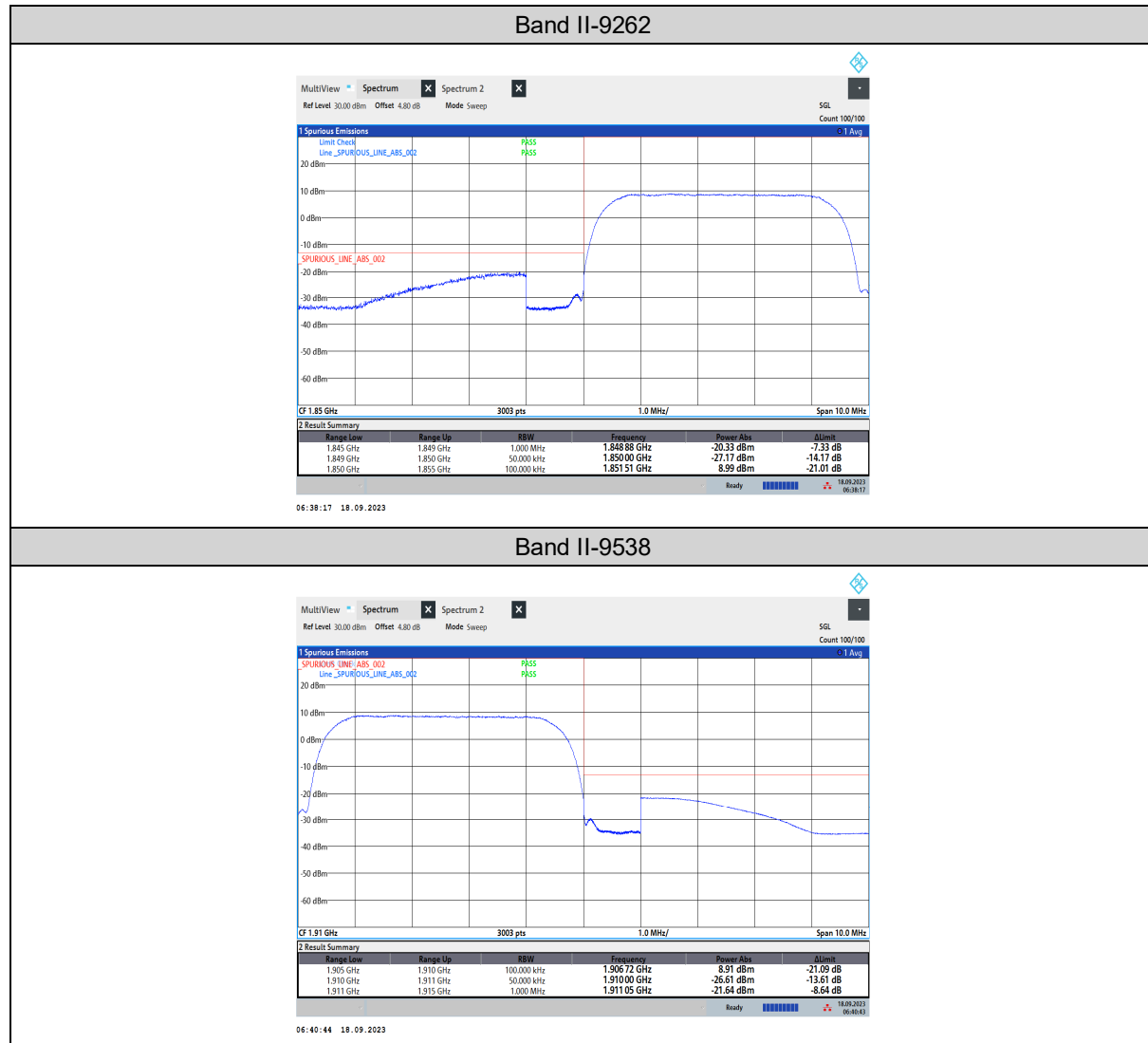
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Band Edge

Test Graphs



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Band IV-1312



Band IV-1513



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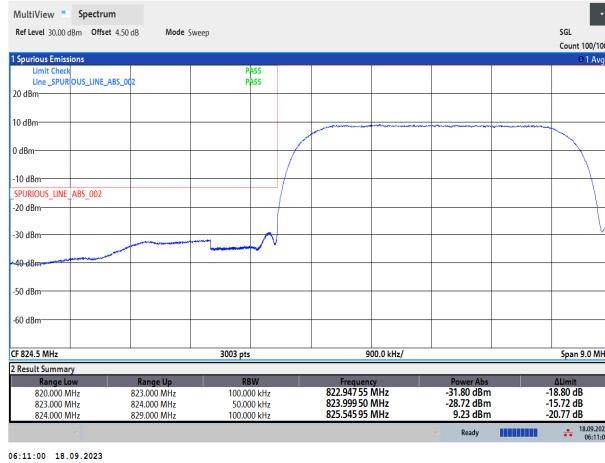
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Band V-4132



Band V-4233



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Conducted Spurious Emission

Test Graphs



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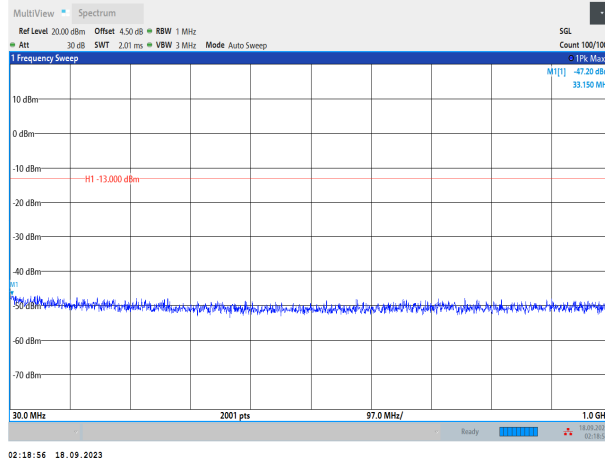
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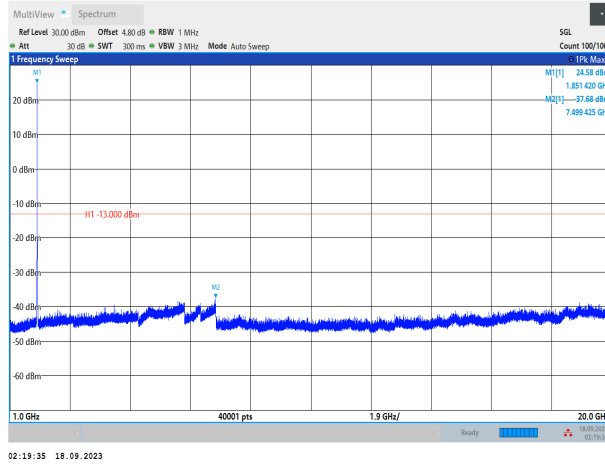
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Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz



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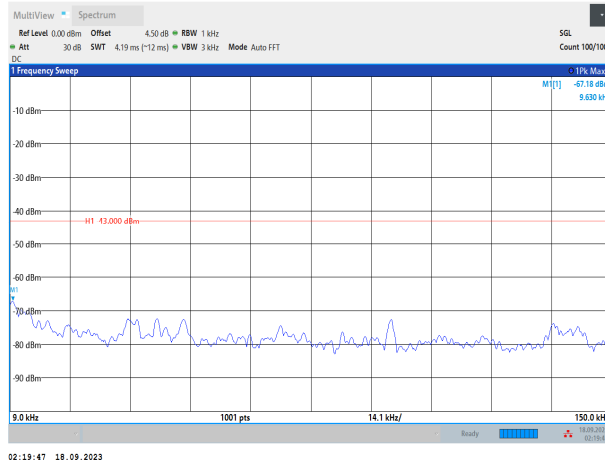
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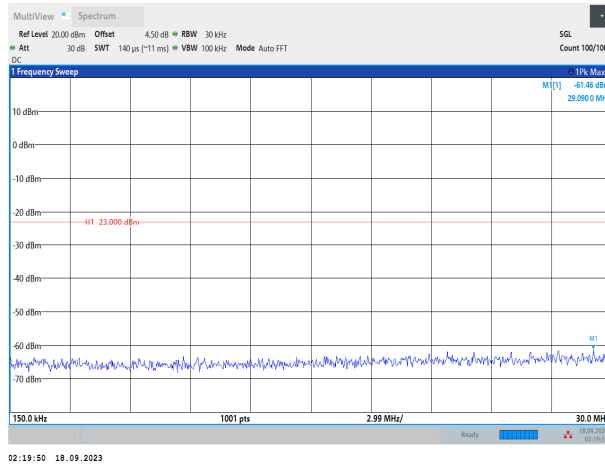
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Band II-9400-0.009~0.15MHz



Band II-9400-0.15~30MHz



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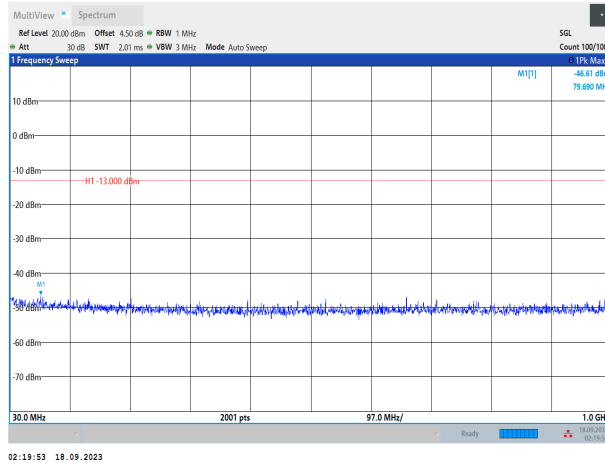
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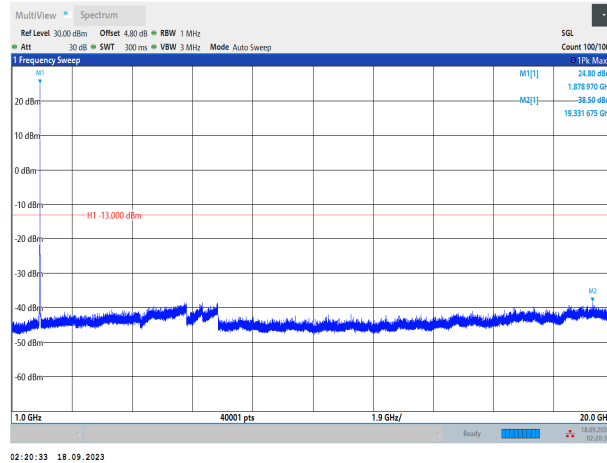
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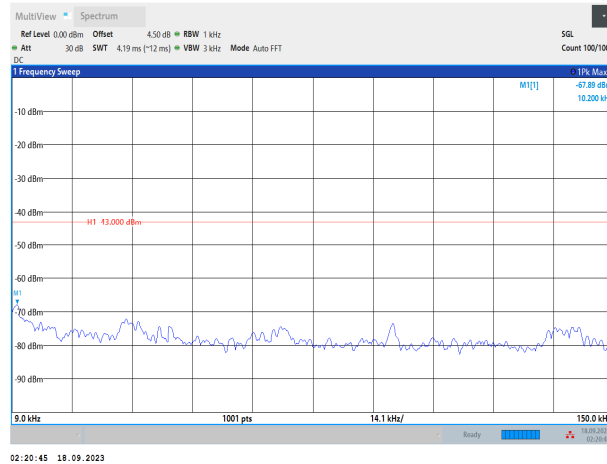
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Band II-9400-1000~20000MHz



Band II-9538-0.009~0.15MHz



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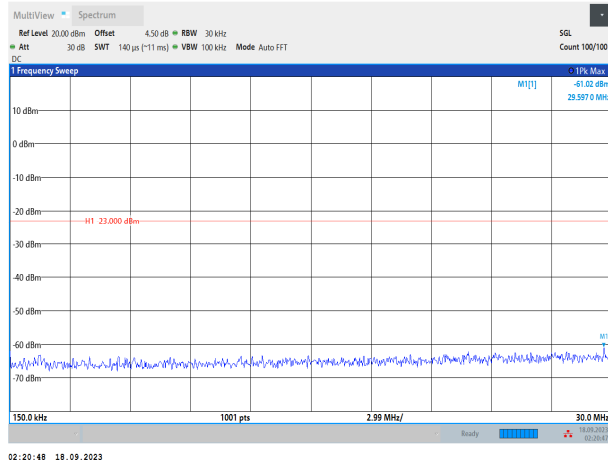


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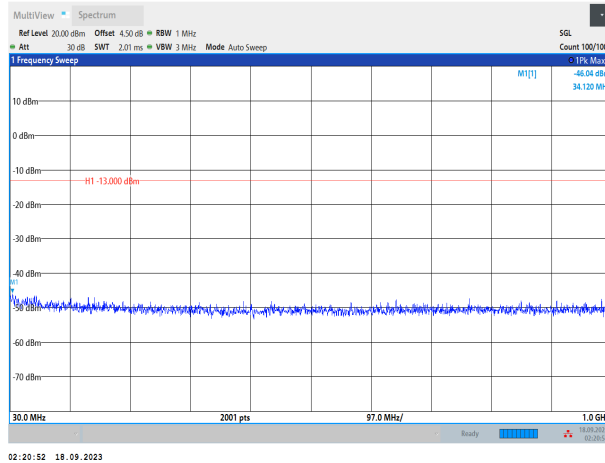
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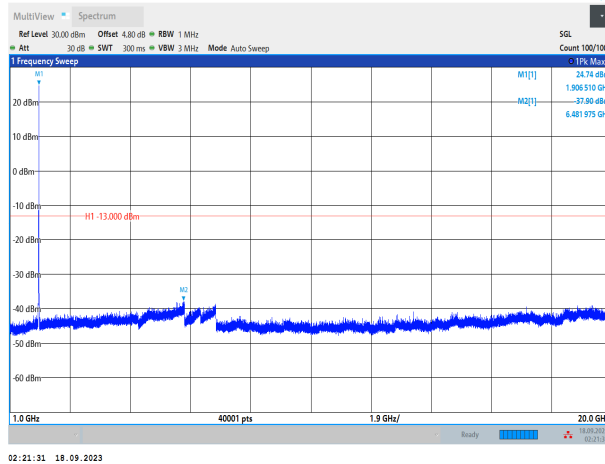
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Band II-9538-30~1000MHz



Band II-9538-1000~20000MHz



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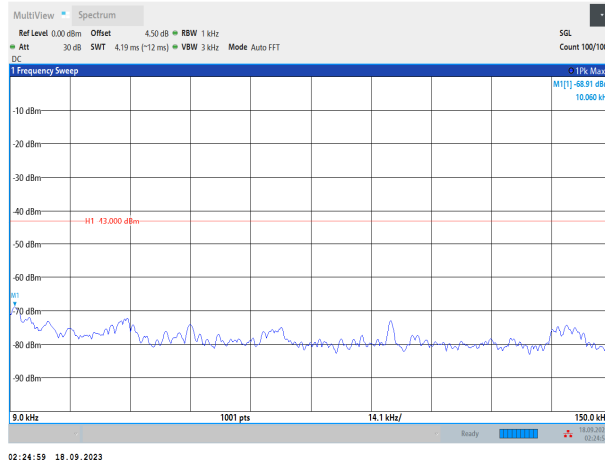
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Band IV-1312-0.009~0.15MHz



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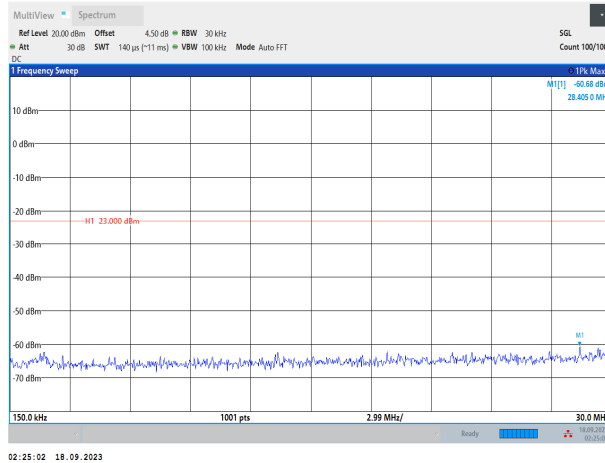
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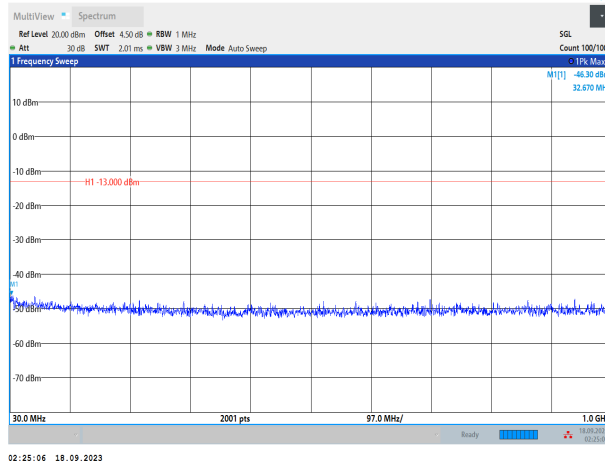
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Band IV-1312-0.15~30MHz



Band IV-1312-30~1000MHz



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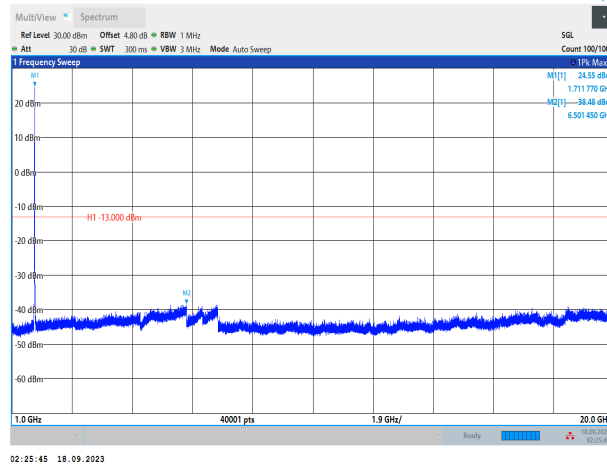


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Band IV-1312-1000~20000MHz



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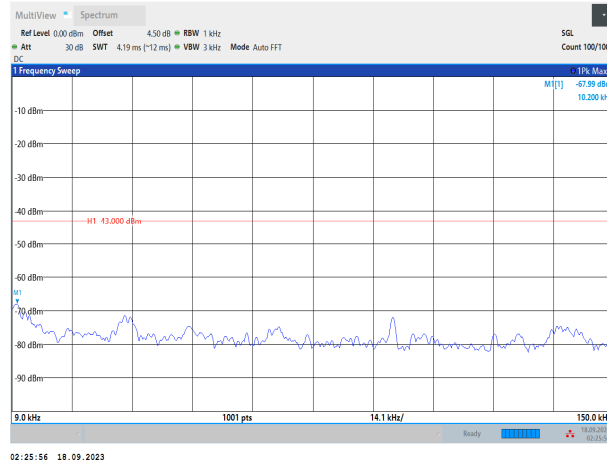
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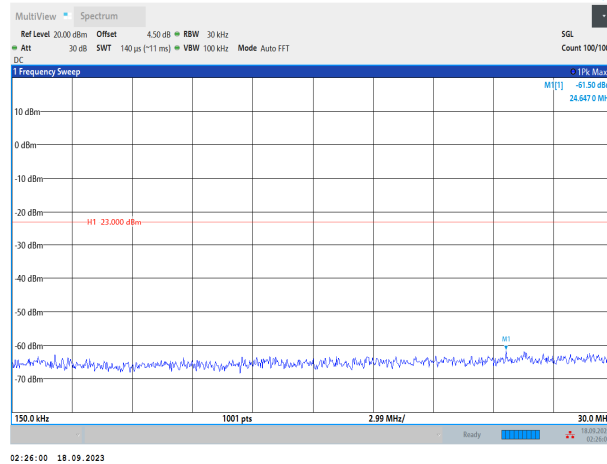
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Band IV-1413-0.009~0.15MHz



Band IV-1413-0.15~30MHz



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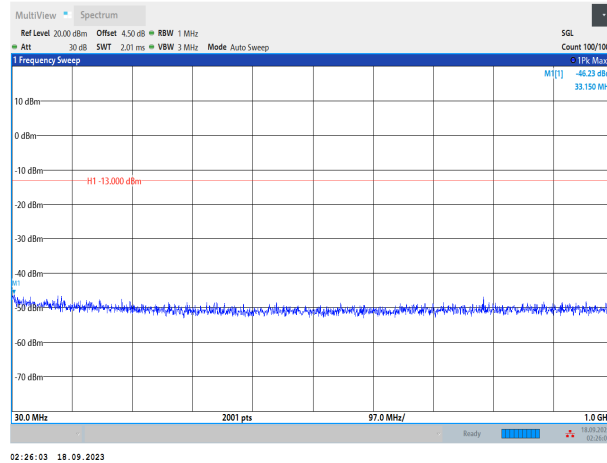
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Band IV-1413-30~1000MHz



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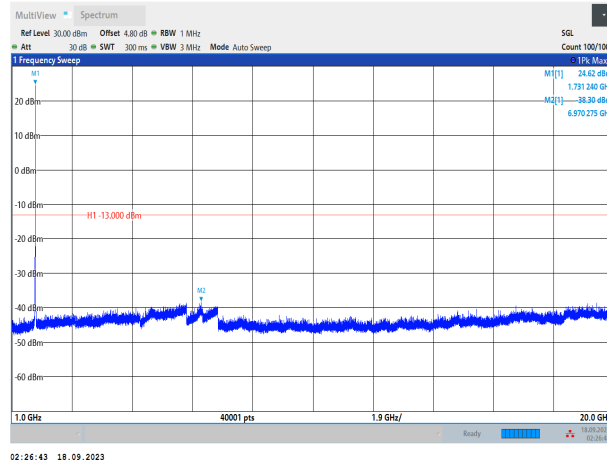
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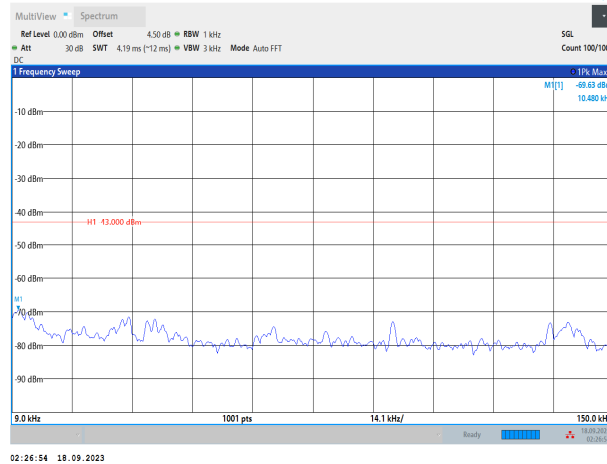
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Band IV-1413-1000~20000MHz



Band IV-1513-0.009~0.15MHz



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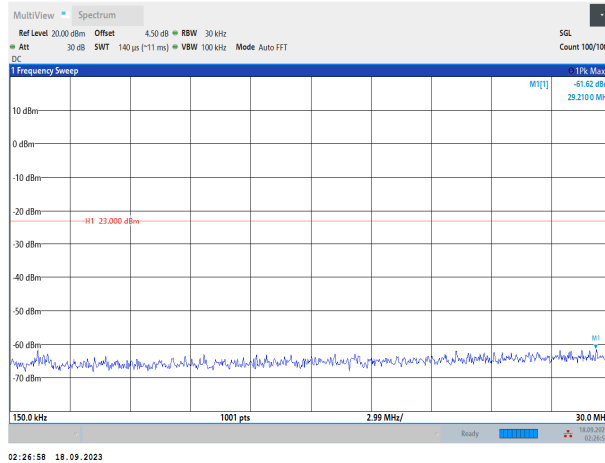
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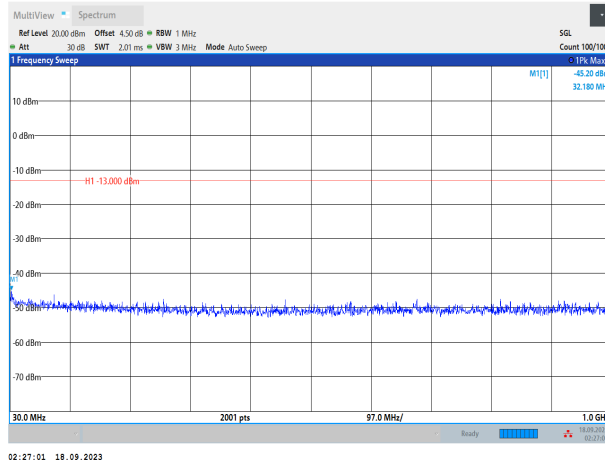
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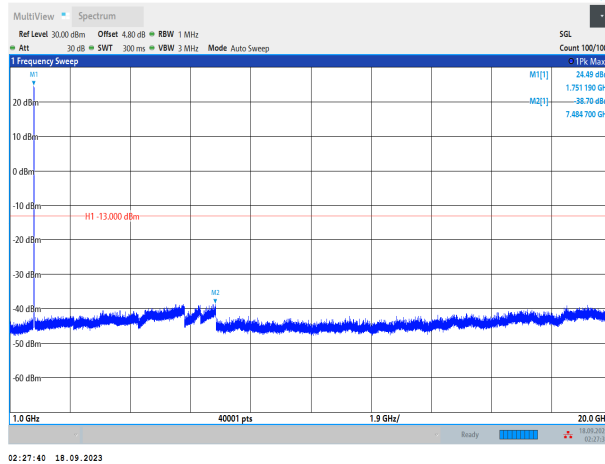
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Band IV-1513-30~1000MHz



Band IV-1513-1000~20000MHz



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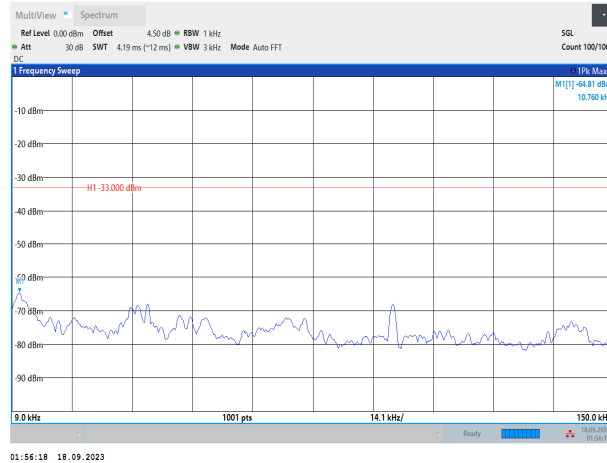
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Band V-4132-0.009~0.15MHz



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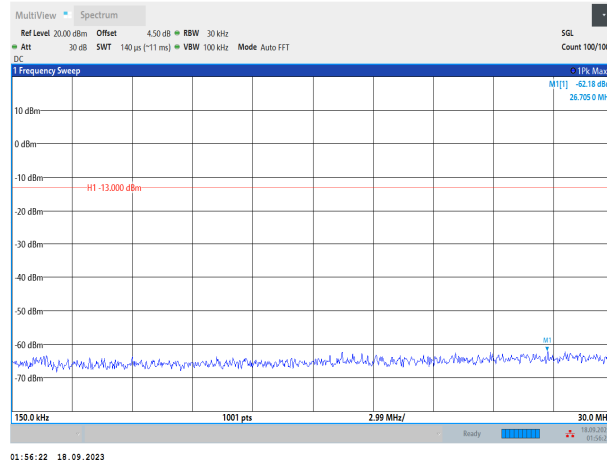
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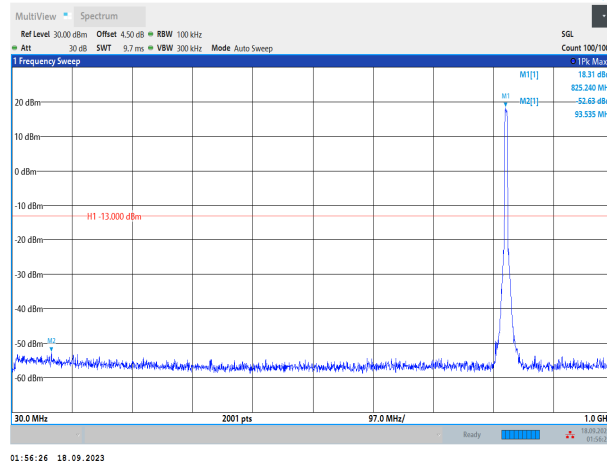
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Band V-4132-0.15~30MHz



Band V-4132-30~1000MHz



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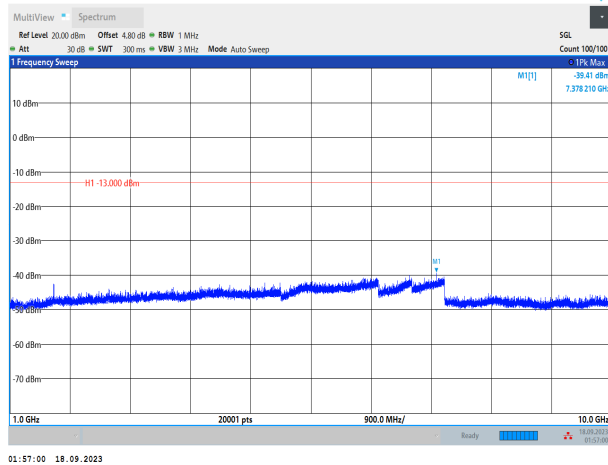


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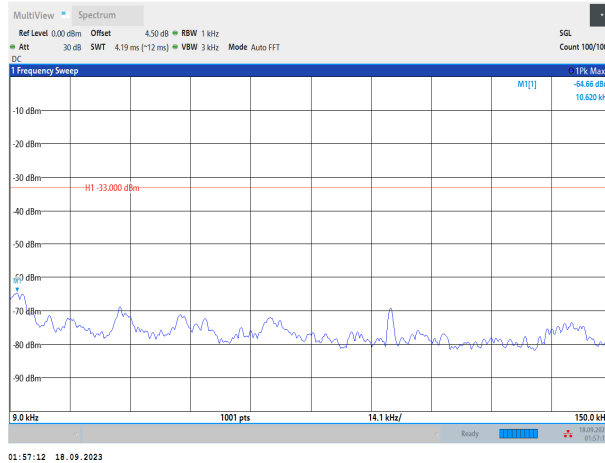
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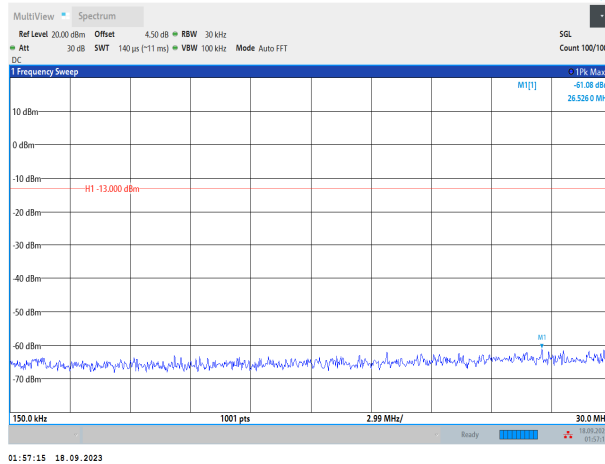
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Band V-4182-0.009~0.15MHz



Band V-4182-0.15~30MHz



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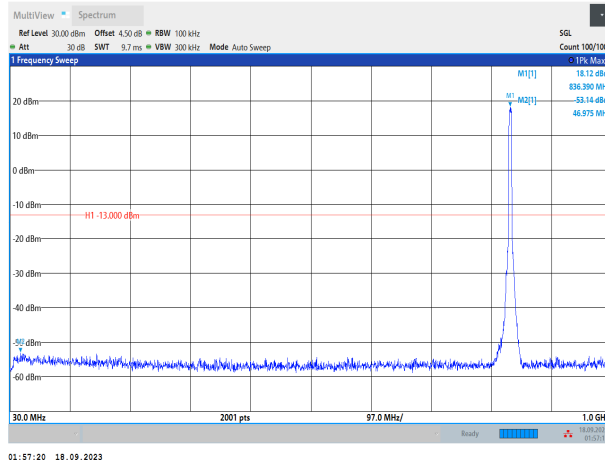
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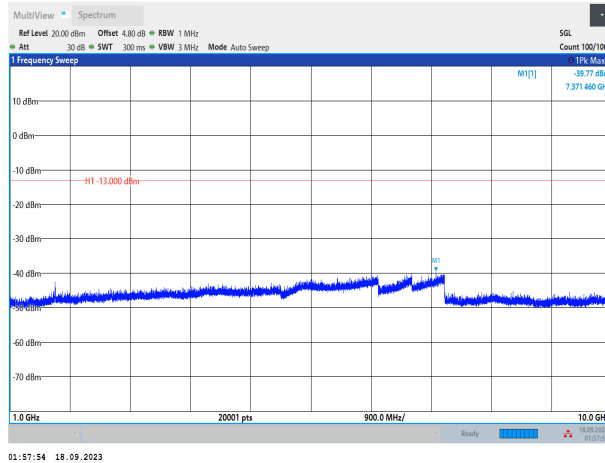
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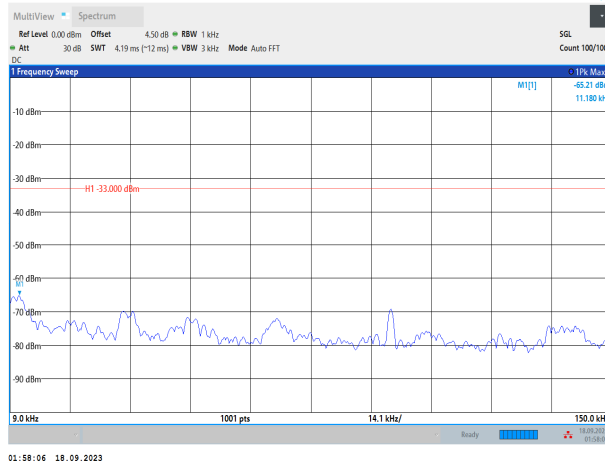
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Band V-4182-1000~10000MHz



Band V-4233-0.009~0.15MHz



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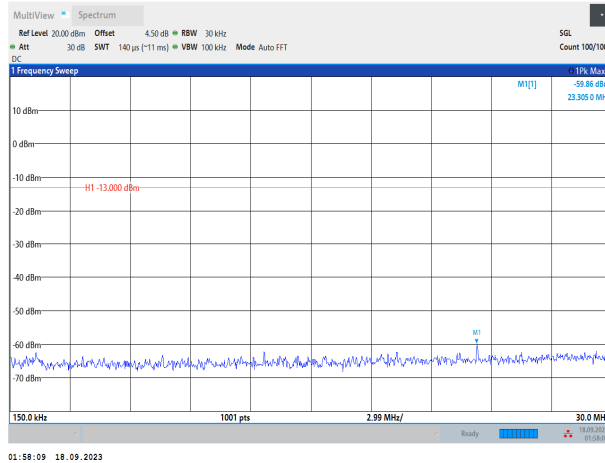
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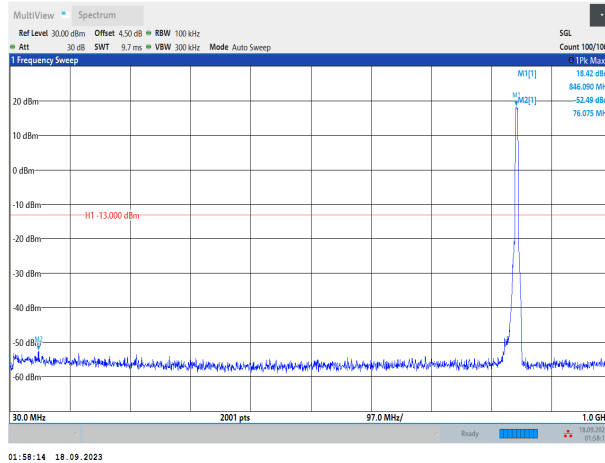
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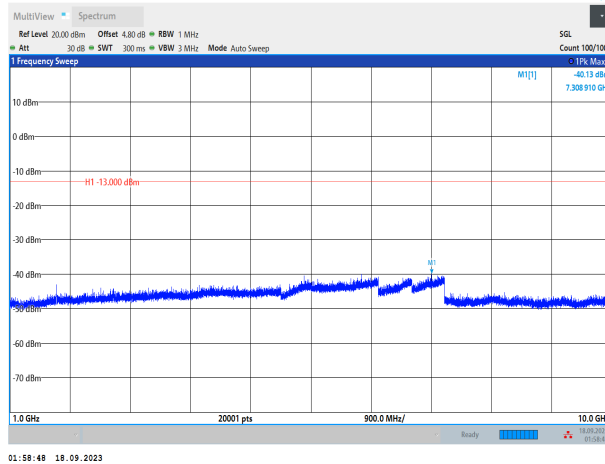
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA 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	44.15	-48.49	28.99	-70.62	-13.00	57.62	Vertical
2	5557.2	43.85	-47.66	32.71	-66.36	-13.00	53.36	Vertical
3	7409.6	44.06	-46.17	36.58	-60.79	-13.00	47.79	Vertical
4	9262	42.81	-43.13	37.84	-57.74	-13.00	44.74	Vertical
5	11114.4	38.09	-40.36	39.38	-58.15	-13.00	45.15	Vertical
6	12966.8	37.29	-39.40	38.62	-58.75	-13.00	45.75	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	44.74	-48.49	28.99	-70.03	-13.00	57.03	Horizontal
2	5557.2	44.03	-47.66	32.71	-66.18	-13.00	53.18	Horizontal
3	7409.6	43.41	-46.17	36.58	-61.44	-13.00	48.44	Horizontal
4	9262	43.01	-43.13	37.84	-57.54	-13.00	44.54	Horizontal
5	11114.4	37.90	-40.36	39.38	-58.34	-13.00	45.34	Horizontal
6	12966.8	37.33	-39.40	38.62	-58.71	-13.00	45.71	Horizontal



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Test Band = WCDMA 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	44.22	-48.31	29.06	-70.29	-13.00	57.29	Vertical
2	5640	43.75	-47.62	32.73	-66.40	-13.00	53.40	Vertical
3	7520	42.61	-45.85	36.78	-61.72	-13.00	48.72	Vertical
4	9400	42.25	-43.05	37.96	-58.10	-13.00	45.10	Vertical
5	11280	37.96	-40.44	39.34	-58.39	-13.00	45.39	Vertical
6	13160	35.84	-38.58	38.97	-59.03	-13.00	46.03	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	43.75	-48.31	29.06	-70.76	-13.00	57.76	Horizontal
2	5640	43.29	-47.62	32.73	-66.86	-13.00	53.86	Horizontal
3	7520	42.93	-45.85	36.78	-61.40	-13.00	48.40	Horizontal
4	9400	41.94	-43.05	37.96	-58.41	-13.00	45.41	Horizontal
5	11280	37.67	-40.44	39.34	-58.68	-13.00	45.68	Horizontal
6	13160	36.37	-38.58	38.97	-58.50	-13.00	45.50	Horizontal



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Test Band = WCDMA 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	9542.25	46.06	-42.32	38.09	-53.43	-13.00	40.43	Vertical
2	3815.2	43.77	-48.20	29.14	-70.55	-13.00	57.55	Vertical
3	5722.8	44.30	-47.53	32.74	-65.74	-13.00	52.74	Vertical
4	7630	42.00	-44.77	36.64	-61.38	-13.00	48.38	Vertical
5	11445.6	37.11	-40.07	39.31	-58.91	-13.00	45.91	Vertical
6	13353.2	36.62	-39.13	39.41	-58.36	-13.00	45.36	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	9533.25	44.83	-42.33	38.08	-54.68	-13.00	41.68	Horizontal
2	3815.2	44.11	-48.20	29.14	-70.21	-13.00	57.21	Horizontal
3	5722.8	43.61	-47.53	32.74	-66.43	-13.00	53.43	Horizontal
4	7630	41.46	-44.77	36.64	-61.92	-13.00	48.92	Horizontal
5	11445.6	37.70	-40.07	39.31	-58.32	-13.00	45.32	Horizontal
6	13353.2	37.07	-39.13	39.41	-57.91	-13.00	44.91	Horizontal



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Test Band = WCDMA 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	44.98	-48.38	28.67	-69.99	-13.00	56.99	Vertical
2	5137.2	44.25	-47.85	31.83	-67.03	-13.00	54.03	Vertical
3	6849.6	42.99	-46.81	35.27	-63.81	-13.00	50.81	Vertical
4	8562	41.41	-44.09	36.99	-60.95	-13.00	47.95	Vertical
5	10274.4	38.89	-41.40	38.75	-59.02	-13.00	46.02	Vertical
6	11986.8	37.06	-39.49	39.20	-58.49	-13.00	45.49	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.53	-48.38	28.67	-70.44	-13.00	57.44	Horizontal
2	5137.2	43.85	-47.85	31.83	-67.43	-13.00	54.43	Horizontal
3	6849.6	43.85	-46.81	35.27	-62.95	-13.00	49.95	Horizontal
4	8562	40.87	-44.09	36.99	-61.49	-13.00	48.49	Horizontal
5	10274.4	38.02	-41.40	38.75	-59.89	-13.00	46.89	Horizontal
6	11986.8	36.88	-39.49	39.20	-58.67	-13.00	45.67	Horizontal



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Test Band = WCDMA 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	44.11	-48.33	28.69	-70.79	-13.00	57.79	Vertical
2	5197.8	44.15	-47.89	31.98	-67.02	-13.00	54.02	Vertical
3	6930.4	42.84	-46.69	35.45	-63.66	-13.00	50.66	Vertical
4	8663	40.58	-44.06	37.13	-61.62	-13.00	48.62	Vertical
5	10395.6	39.24	-41.24	38.86	-58.40	-13.00	45.40	Vertical
6	12128.2	37.24	-39.68	39.12	-58.58	-13.00	45.58	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.32	-48.33	28.69	-70.58	-13.00	57.58	Horizontal
2	5197.8	43.60	-47.89	31.98	-67.57	-13.00	54.57	Horizontal
3	6930.4	43.28	-46.69	35.45	-63.22	-13.00	50.22	Horizontal
4	8663	41.65	-44.06	37.13	-60.55	-13.00	47.55	Horizontal
5	10395.6	38.94	-41.24	38.86	-58.70	-13.00	45.70	Horizontal
6	12128.2	37.37	-39.68	39.12	-58.45	-13.00	45.45	Horizontal



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Test Band = WCDMA 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	44.53	-48.29	28.71	-70.31	-13.00	57.31	Vertical
2	5257.8	43.88	-47.83	32.12	-67.09	-13.00	54.09	Vertical
3	7010.4	43.54	-46.52	35.63	-62.61	-13.00	49.61	Vertical
4	8763	42.13	-44.04	37.27	-59.90	-13.00	46.90	Vertical
5	10515.6	38.50	-40.74	38.96	-58.54	-13.00	45.54	Vertical
6	12268.2	37.11	-39.76	39.04	-58.87	-13.00	45.87	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.40	-48.29	28.71	-70.44	-13.00	57.44	Horizontal
2	5257.8	43.53	-47.83	32.12	-67.44	-13.00	54.44	Horizontal
3	7010.4	43.53	-46.52	35.63	-62.62	-13.00	49.62	Horizontal
4	8763	41.52	-44.04	37.27	-60.51	-13.00	47.51	Horizontal
5	10515.6	38.69	-40.74	38.96	-58.35	-13.00	45.35	Horizontal
6	12268.2	36.86	-39.76	39.04	-59.12	-13.00	46.12	Horizontal



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Test Band = WCDMA 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	1652.8	45.34	-49.82	25.31	-74.43	-13.00	61.43	Vertical
2	2479.2	44.37	-49.02	27.28	-72.63	-13.00	59.63	Vertical
3	3305.6	44.17	-48.63	28.62	-71.10	-13.00	58.10	Vertical
4	4132	43.79	-48.29	29.64	-70.12	-13.00	57.12	Vertical
5	4958.4	43.31	-48.05	31.40	-68.60	-13.00	55.60	Vertical
6	5784.8	43.86	-47.69	32.76	-66.33	-13.00	53.33	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8	45.34	-49.82	25.31	-74.43	-13.00	61.43	Horizontal
2	2479.2	44.65	-49.02	27.28	-72.35	-13.00	59.35	Horizontal
3	3305.6	44.16	-48.63	28.62	-71.11	-13.00	58.11	Horizontal
4	4132	43.86	-48.29	29.64	-70.05	-13.00	57.05	Horizontal
5	4958.4	43.55	-48.05	31.40	-68.36	-13.00	55.36	Horizontal
6	5784.8	43.65	-47.69	32.76	-66.54	-13.00	53.54	Horizontal



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Test Band = WCDMA 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	1672.8	45.58	-49.78	25.39	-74.07	-13.00	61.07	Vertical
2	2509.2	44.34	-48.93	27.32	-72.52	-13.00	59.52	Vertical
3	3345.6	44.81	-48.66	28.64	-70.47	-13.00	57.47	Vertical
4	4182	44.70	-48.34	29.73	-69.17	-13.00	56.17	Vertical
5	5018.4	43.45	-47.95	31.54	-68.22	-13.00	55.22	Vertical
6	5854.8	43.31	-47.33	32.77	-66.51	-13.00	53.51	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	45.28	-49.78	25.39	-74.37	-13.00	61.37	Horizontal
2	2509.2	45.33	-48.93	27.32	-71.53	-13.00	58.53	Horizontal
3	3345.6	44.82	-48.66	28.64	-70.46	-13.00	57.46	Horizontal
4	4182	43.86	-48.34	29.73	-70.01	-13.00	57.01	Horizontal
5	5018.4	43.19	-47.95	31.54	-68.48	-13.00	55.48	Horizontal
6	5854.8	43.47	-47.33	32.77	-66.35	-13.00	53.35	Horizontal



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Test Band = WCDMA 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	2541.3333	47.25	-49.01	27.40	-69.62	-13.00	56.62	Vertical
2	1693.2	45.22	-49.73	25.47	-74.30	-13.00	61.30	Vertical
3	3386.4	44.34	-48.68	28.65	-70.95	-13.00	57.95	Vertical
4	4233	44.19	-48.25	29.82	-69.50	-13.00	56.50	Vertical
5	5079.6	43.72	-47.93	31.69	-67.78	-13.00	54.78	Vertical
6	5926.2	43.52	-47.17	32.79	-66.13	-13.00	53.13	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2	45.38	-49.73	25.47	-74.14	-13.00	61.14	Horizontal
2	2539.8	44.54	-49.01	27.40	-72.33	-13.00	59.33	Horizontal
3	3386.4	45.06	-48.68	28.65	-70.23	-13.00	57.23	Horizontal
4	4233	44.42	-48.25	29.82	-69.27	-13.00	56.27	Horizontal
5	5079.6	44.71	-47.93	31.69	-66.79	-13.00	53.79	Horizontal
6	5926.2	43.40	-47.17	32.79	-66.25	-13.00	53.25	Horizontal

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	3.42	0.001819	PASS
Band II	9400	VN	NT	2.89	0.001537	PASS
Band II	9400	VH	NT	3.15	0.001676	PASS
Band IV	1413	VL	NT	1.26	0.000727	PASS
Band IV	1413	VN	NT	0.87	0.000502	PASS
Band IV	1413	VH	NT	0.29	0.000167	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-1.07	-0.001279	±2.5	PASS
Band V	4182	VN	NT	-0.68	-0.000813	±2.5	PASS
Band V	4182	VH	NT	-1.02	-0.001220	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	3.85	0.002048	PASS
Band II	9400	NV	-20	2.97	0.001580	PASS
Band II	9400	NV	-10	2.11	0.001122	PASS
Band II	9400	NV	0	3.86	0.002053	PASS
Band II	9400	NV	10	3.90	0.002074	PASS
Band II	9400	NV	20	3.86	0.002053	PASS
Band II	9400	NV	30	2.95	0.001569	PASS
Band II	9400	NV	40	4.52	0.002404	PASS
Band II	9400	NV	50	1.30	0.000750	PASS
Band IV	1413	NV	-30	0.90	0.000519	PASS
Band IV	1413	NV	-20	0.91	0.000525	PASS
Band IV	1413	NV	-10	0.22	0.000127	PASS
Band IV	1413	NV	0	1.07	0.000618	PASS
Band IV	1413	NV	10	1.24	0.000716	PASS
Band IV	1413	NV	20	0.41	0.000237	PASS
Band IV	1413	NV	30	0.14	0.000081	PASS
Band IV	1413	NV	40	3.23	0.002142	PASS
Band IV	1413	NV	50	2.42	0.001638	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-1.03	-0.001231	±2.5	PASS
Band V	4182	NV	-20	-0.68	-0.000813	±2.5	PASS
Band V	4182	NV	-10	-0.11	-0.000132	±2.5	PASS
Band V	4182	NV	0	-0.59	-0.000705	±2.5	PASS
Band V	4182	NV	10	-0.82	-0.000980	±2.5	PASS
Band V	4182	NV	20	-0.60	-0.000717	±2.5	PASS
Band V	4182	NV	30	-0.41	-0.000490	±2.5	PASS
Band V	4182	NV	40	-1.72	-0.002056	±2.5	PASS
Band V	4182	NV	50	-1.63	-0.001345	±2.5	PASS

---End of Attachment---



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