



Report No.: XEWM2309000451RG01

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# Appendix B.2

## WCDMA Band II&IV&V



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**Effective (Isotropic) Radiated Power Output Data****Test Result****ANT4**

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	24.57	23.57	33.00	PASS
Band II	9400	24.56	23.56	33.00	PASS
Band II	9538	24.70	23.60	33.00	PASS

**ANT4**

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band IV	1312	24.74	23.34	30.00	PASS
Band IV	1413	24.65	23.25	30.00	PASS
Band IV	1513	24.60	23.20	30.00	PASS

**ANT1**

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	24.78	18.93	38.45	PASS
Band V	4182	24.76	18.91	38.45	PASS
Band V	4233	24.67	18.82	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	2.58	13	PASS
Band II	9400	2.68	13	PASS
Band II	9538	2.80	13	PASS
Band IV	1312	3.08	13	PASS
Band IV	1413	3.12	13	PASS
Band IV	1513	3.14	13	PASS
Band V	4132	3.12	13	PASS
Band V	4182	3.00	13	PASS
Band V	4233	3.02	13	PASS



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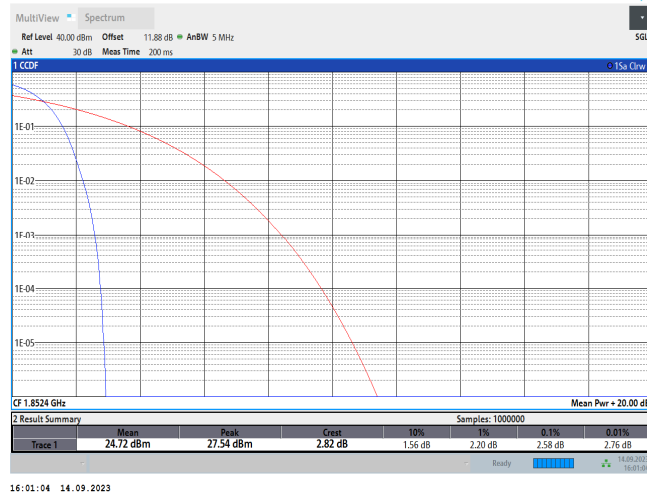
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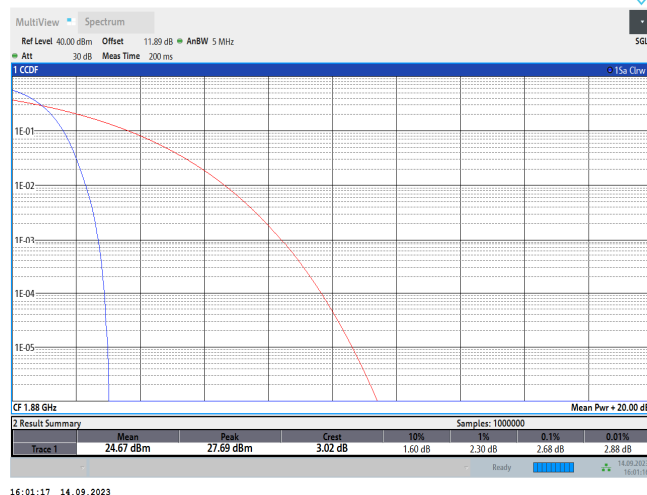
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### Test Graphs

Band II-9262



Band II-9400



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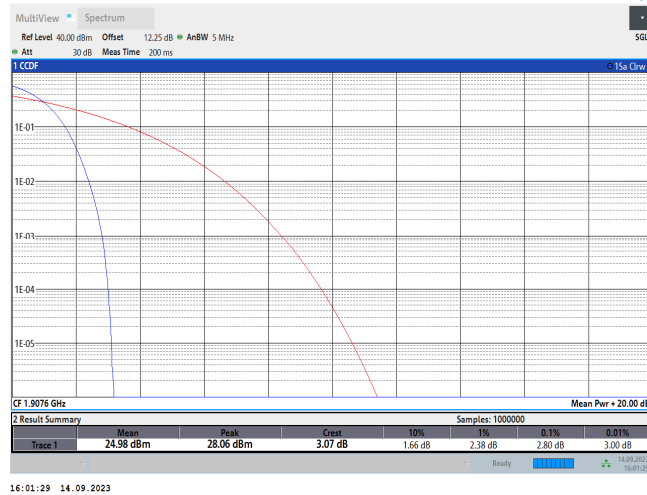


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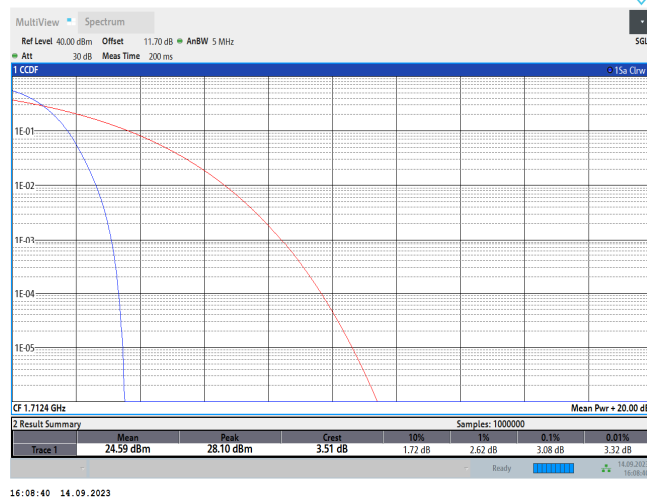
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### Band II-9538



### Band IV-1312



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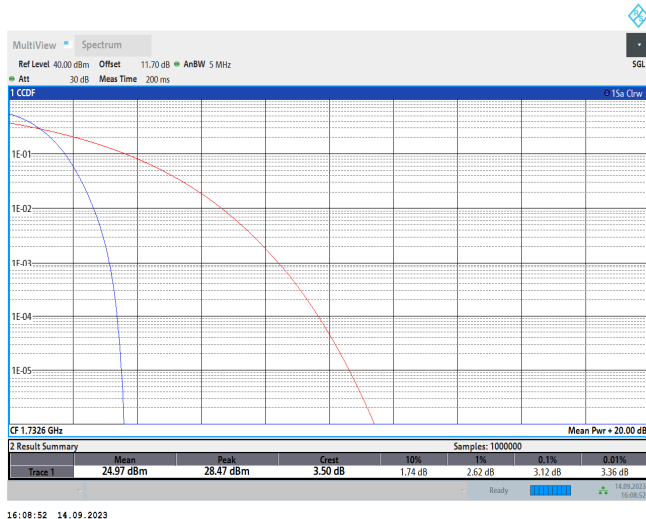
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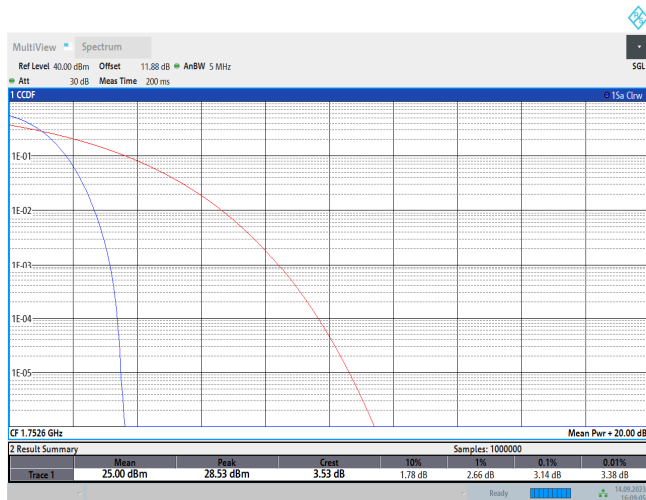
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### Band IV-1413



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### Band IV-1513



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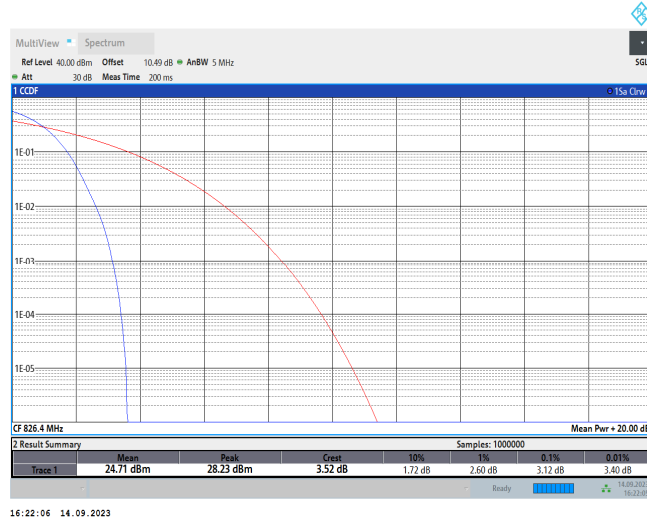


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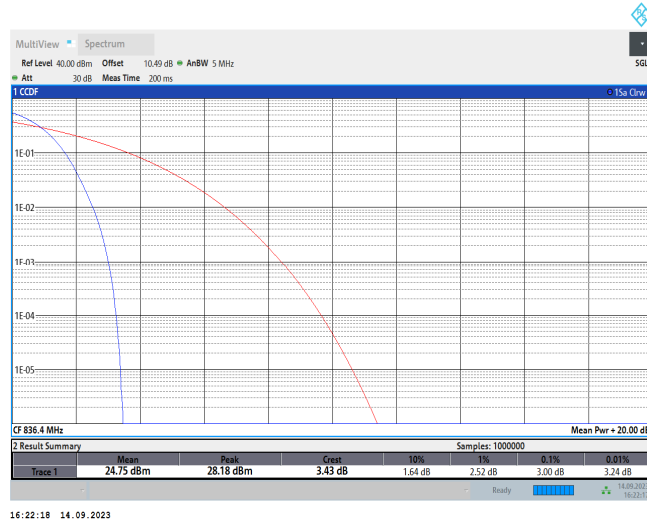
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### Band V-4132



### Band V-4182



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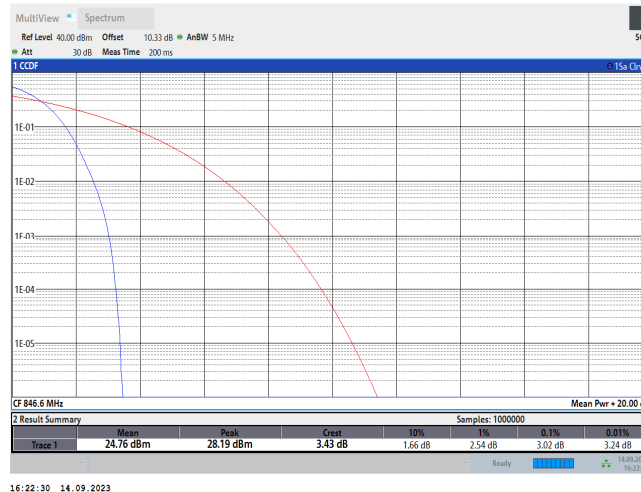


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Band V-4233



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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	4.146	4.72	---	PASS
Band II	9400	4.177	4.77	---	PASS
Band II	9538	4.175	4.75	---	PASS
Band IV	1312	4.149	4.66	---	PASS
Band IV	1413	4.163	4.72	---	PASS
Band IV	1513	4.158	4.72	---	PASS
Band V	4132	4.17	4.71	---	PASS
Band V	4182	4.169	4.72	---	PASS
Band V	4233	4.163	4.72	---	PASS



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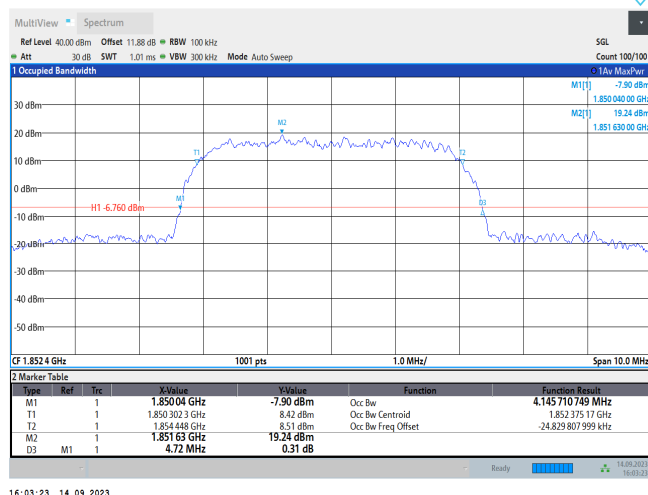
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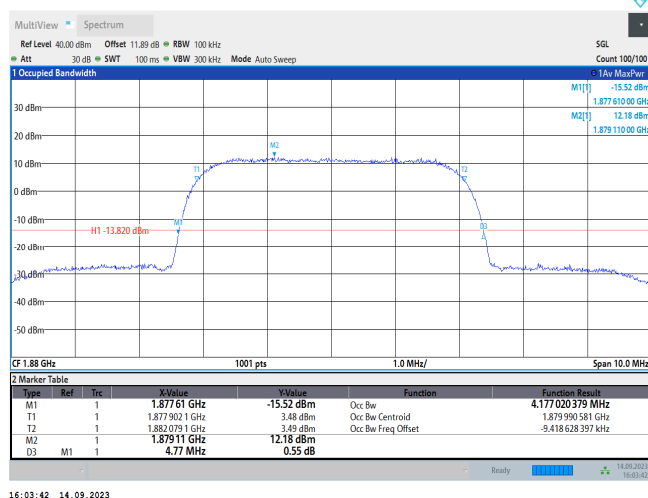
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### Test Graphs

#### Band II-9262



#### Band II-9400

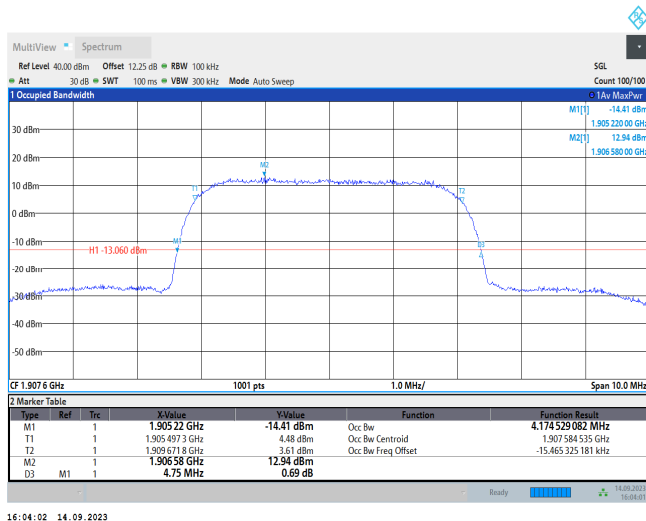


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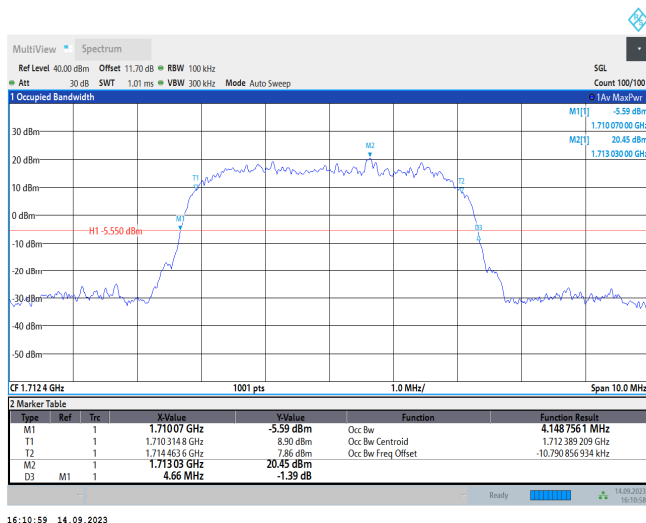
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### Band II-9538



### Band IV-1312

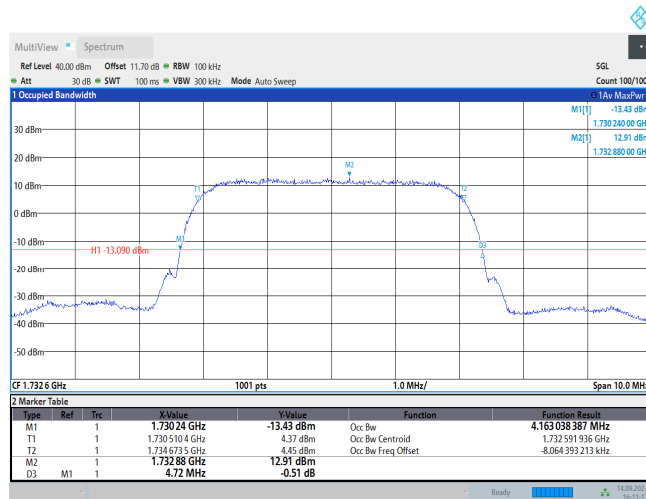


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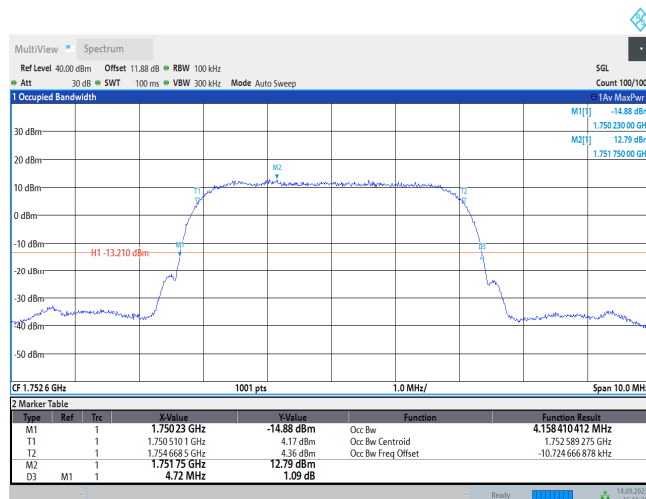
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## Band IV-1413



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## Band IV-1513



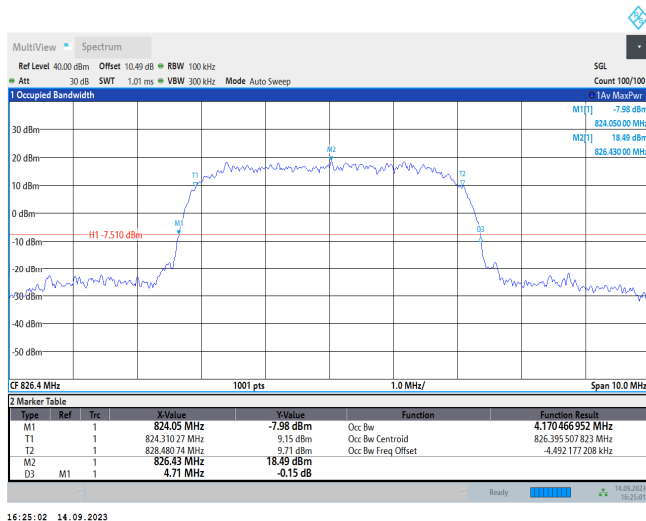
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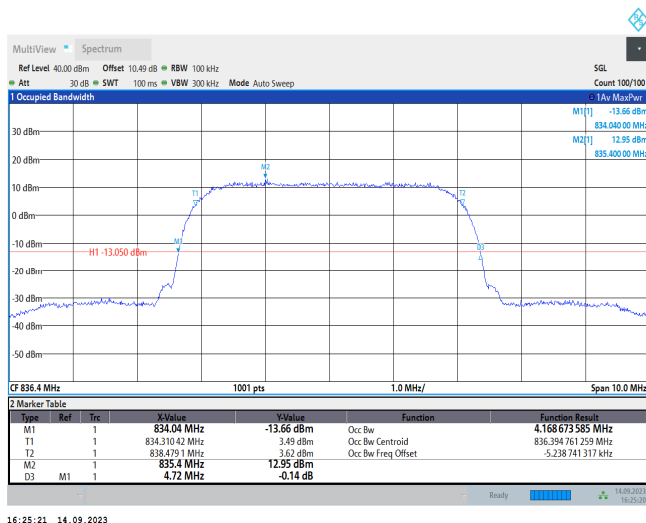
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### Band V-4132



### Band V-4182



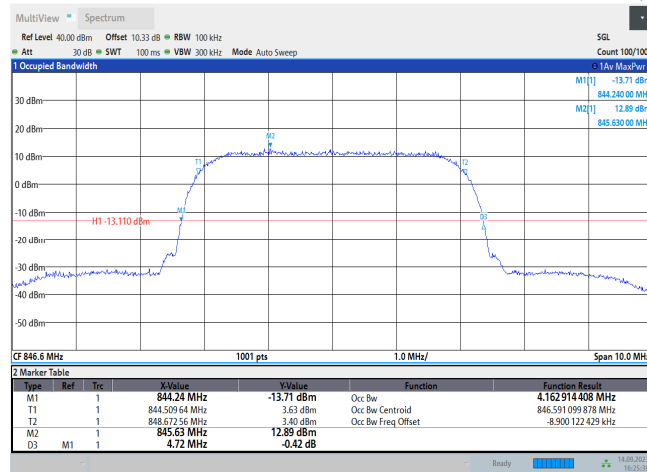


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Band V-4233



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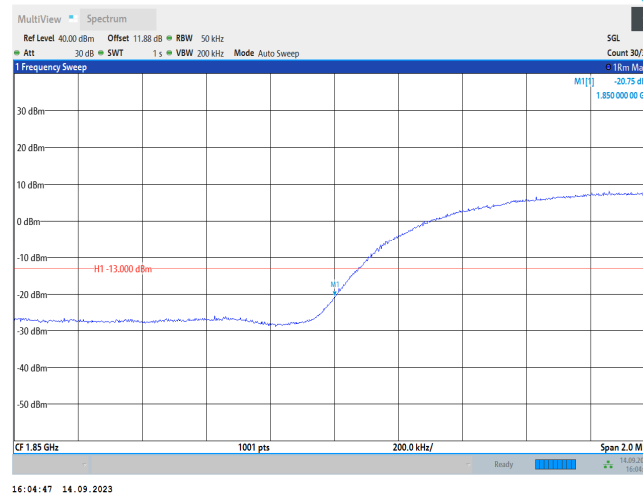
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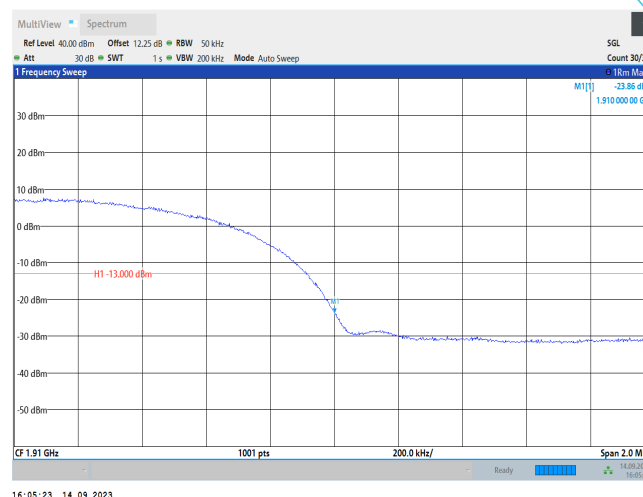
### Band Edge

### Test Graphs

Band II-9262



Band II-9538



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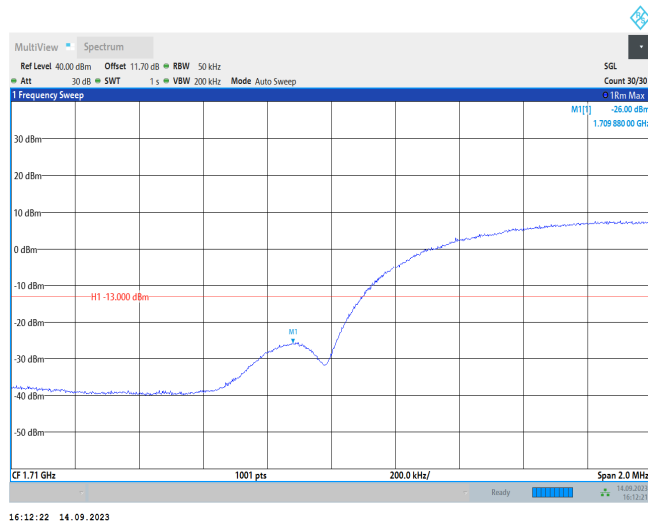
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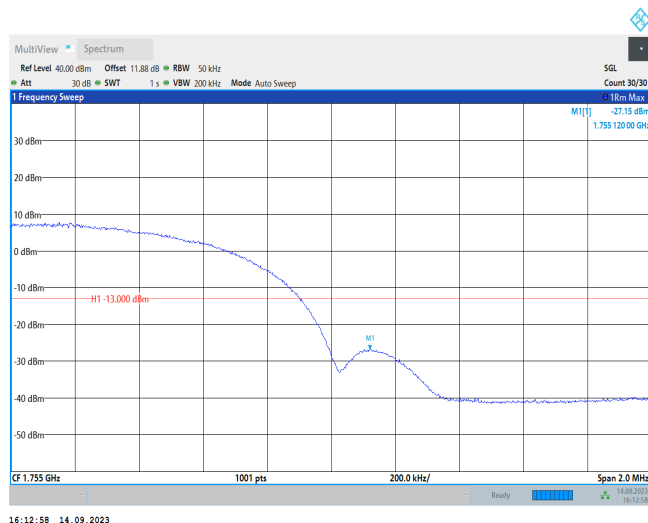
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### Band IV-1312



### Band IV-1513



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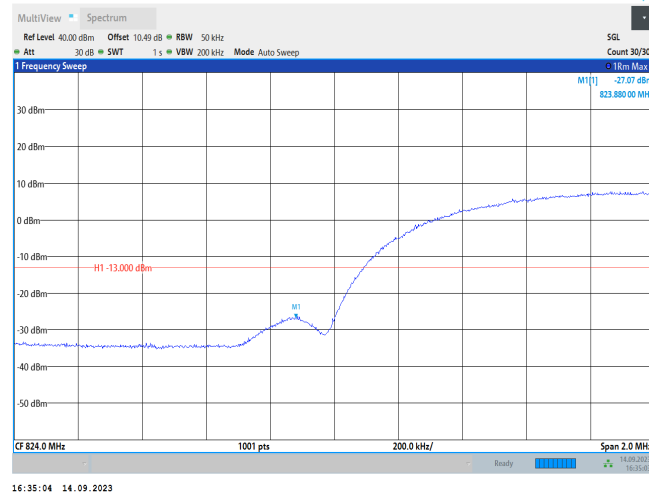
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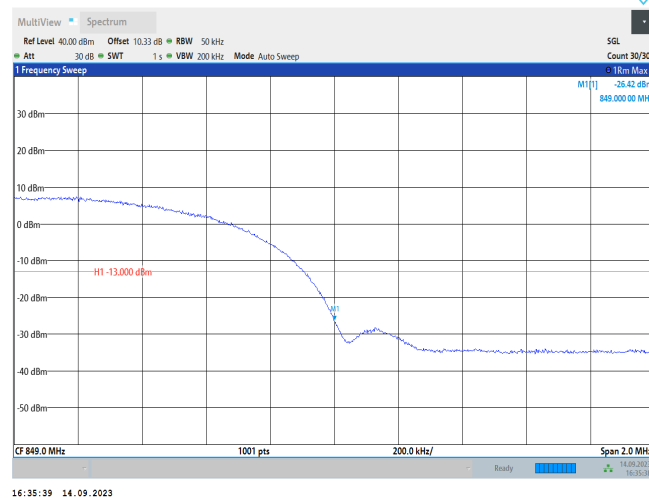
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### Band V-4132



### Band V-4233



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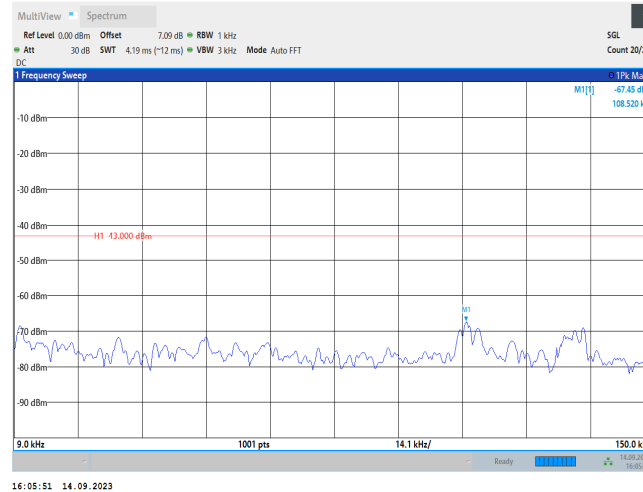
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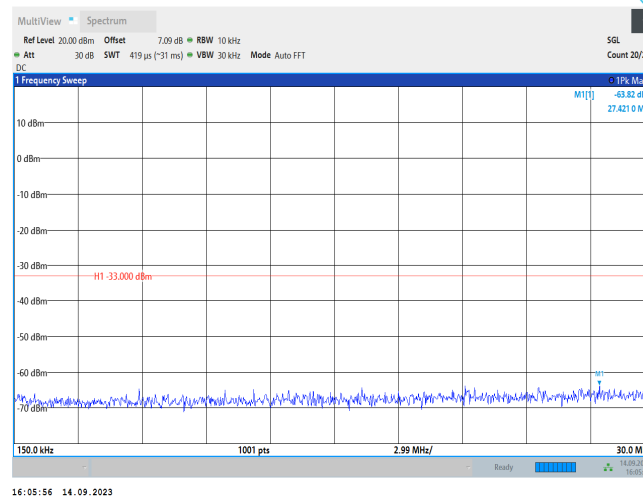
### Conducted Spurious Emission

#### Test Graphs

Band II-9262-0.009~0.15MHz



Band II-9262-0.15~30MHz



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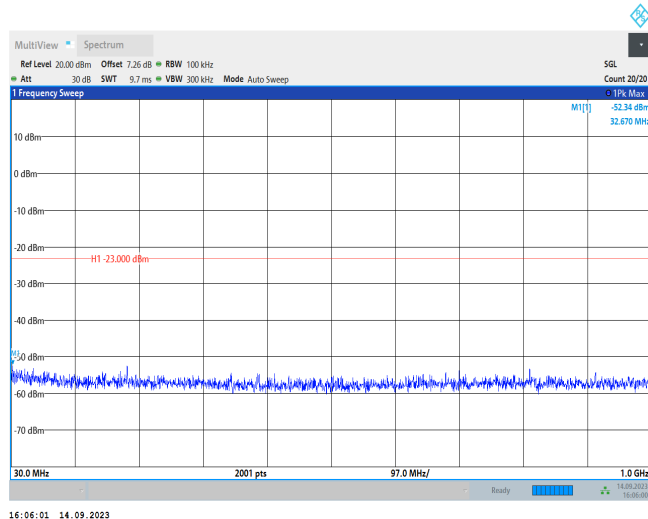
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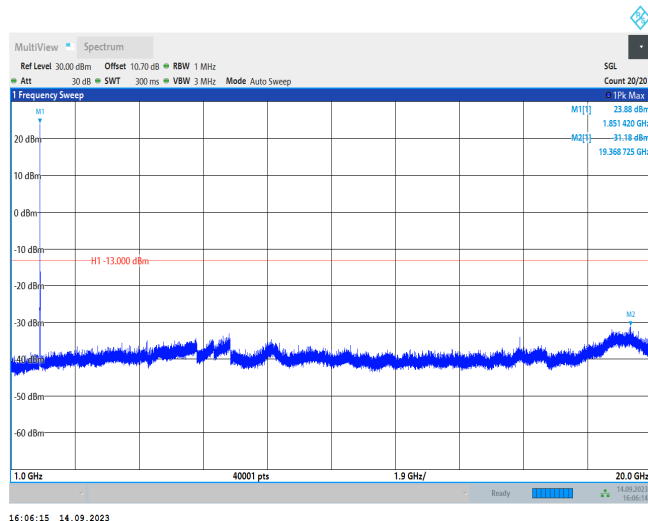
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### Band II-9262-30~1000MHz



### Band II-9262-1000~20000MHz



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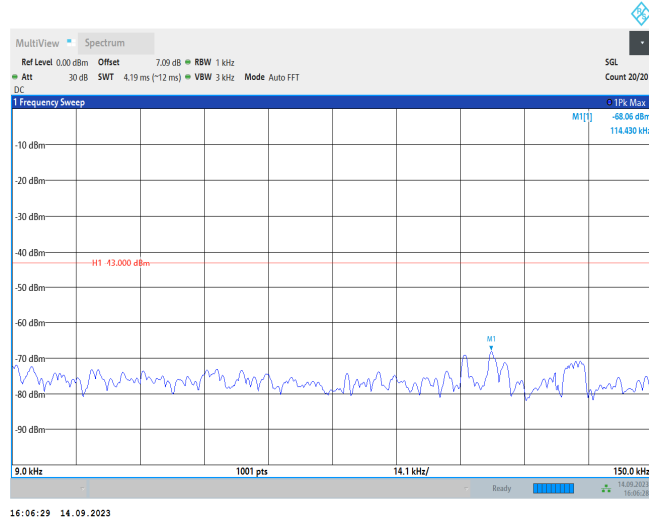


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Band II-9400-0.009~0.15MHz



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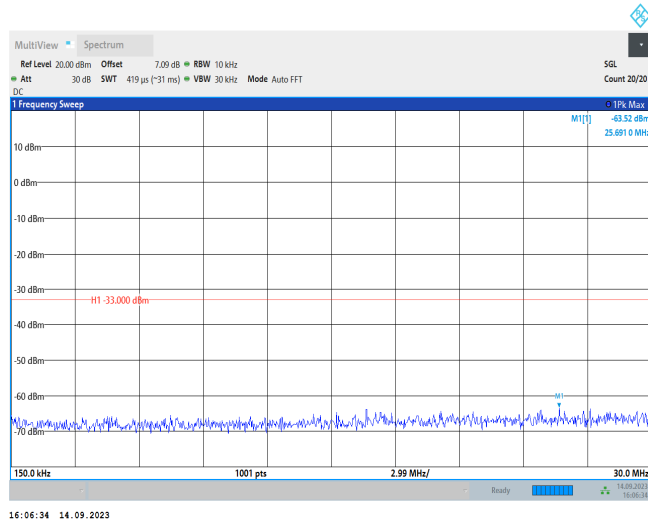


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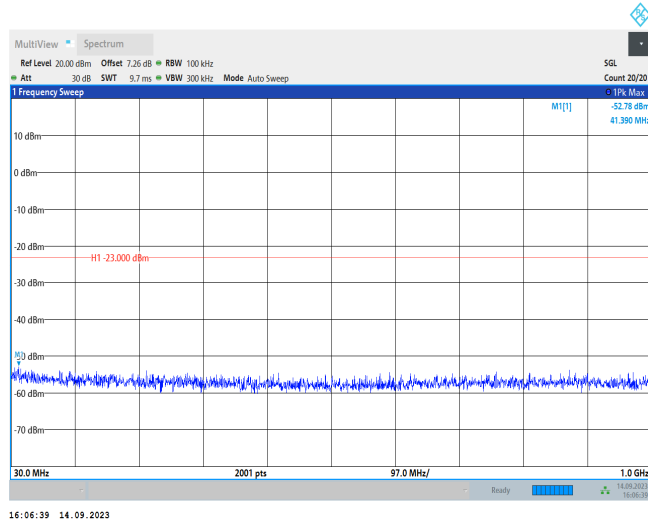
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### Band II-9400-0.15~30MHz



### Band II-9400-30~1000MHz



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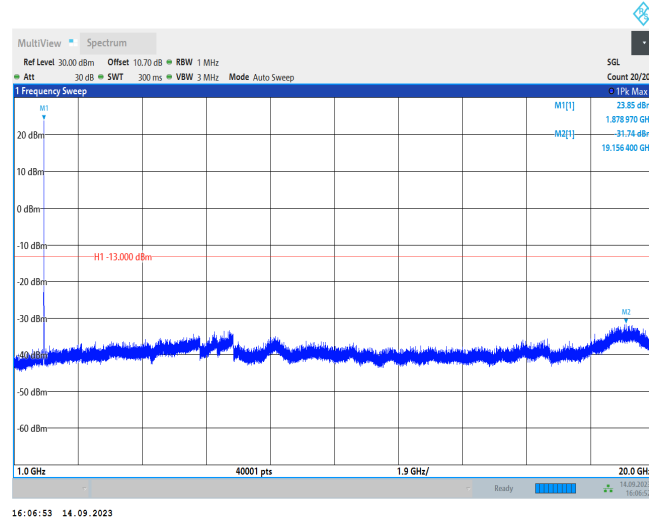


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Band II-9400-1000~20000MHz



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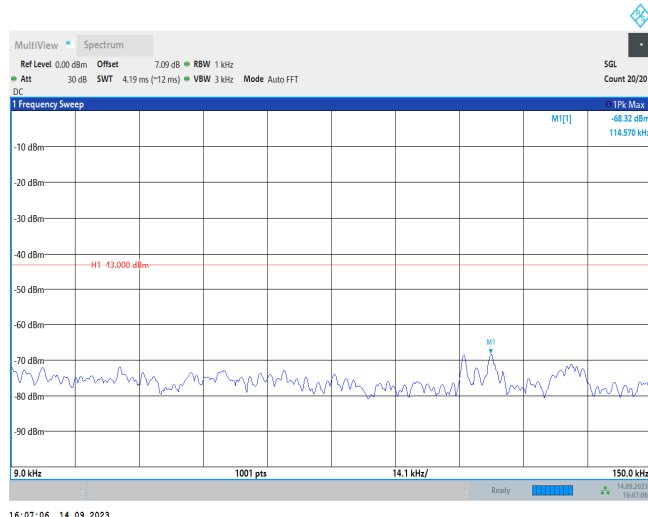
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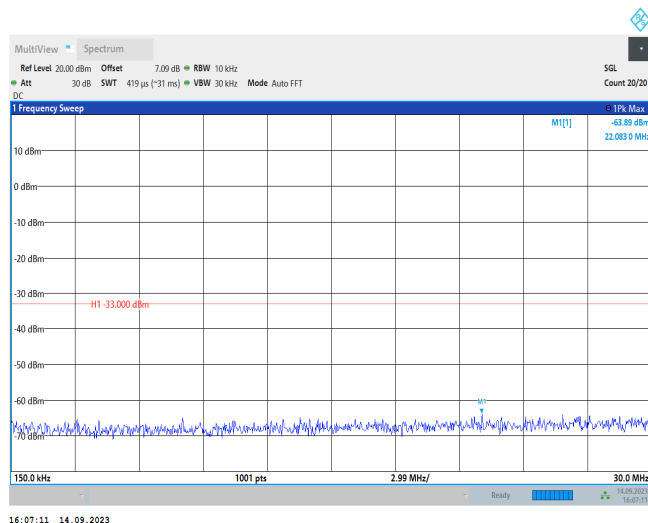
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### Band II-9538-0.009~0.15MHz



### Band II-9538-0.15~30MHz



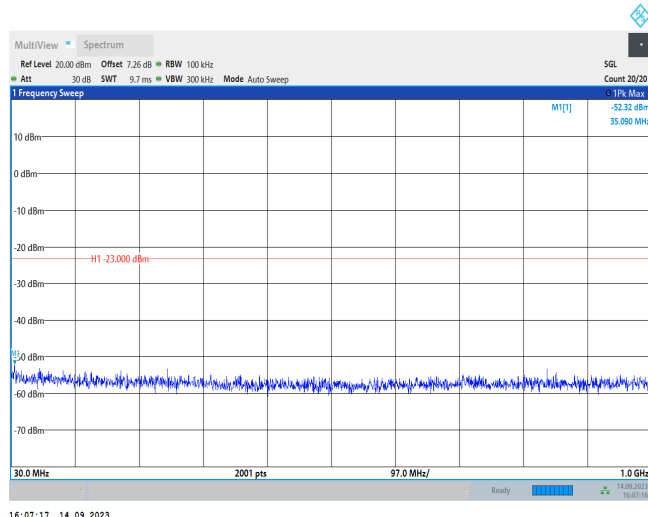


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Band II-9538-30~1000MHz



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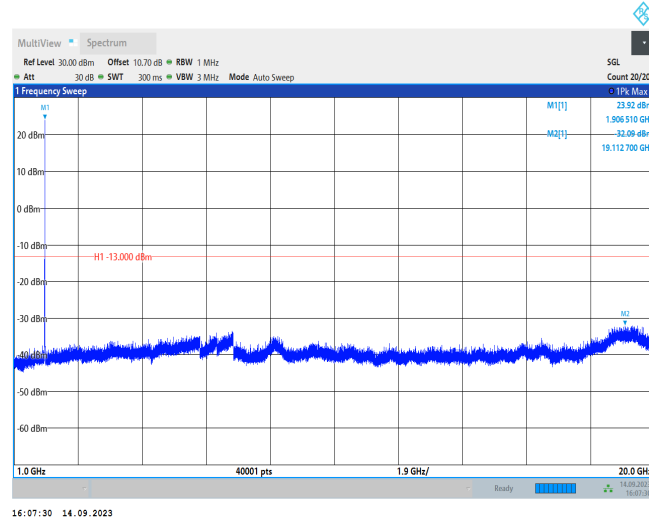


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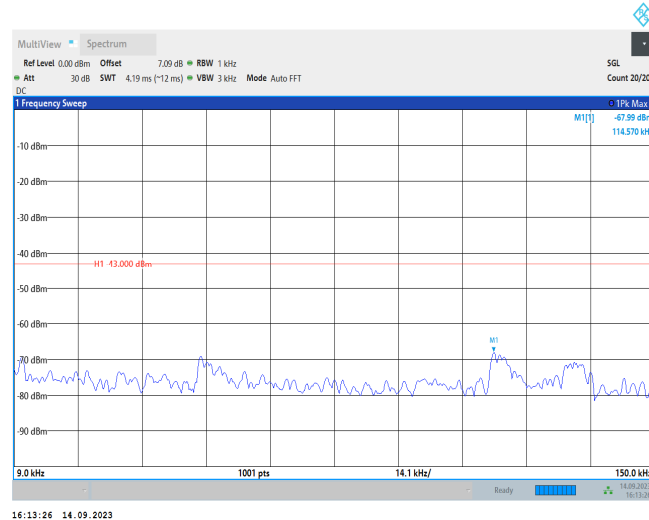
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### Band II-9538-1000~20000MHz



### Band IV-1312-0.009~0.15MHz



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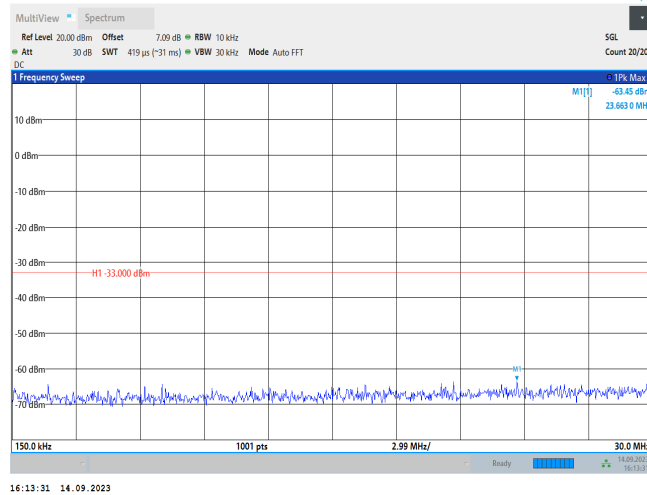


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Band IV-1312-0.15~30MHz



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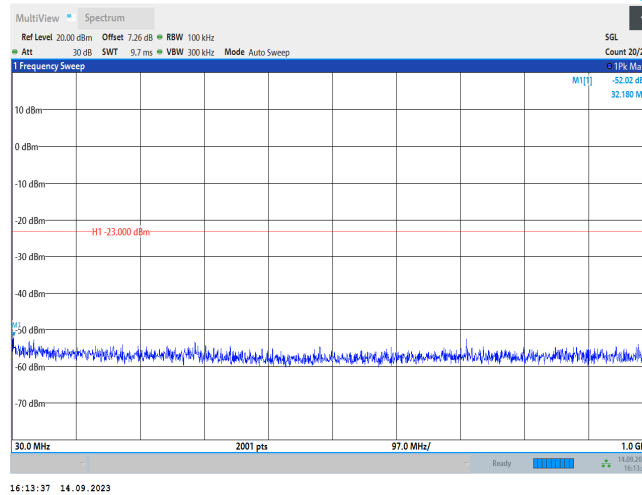


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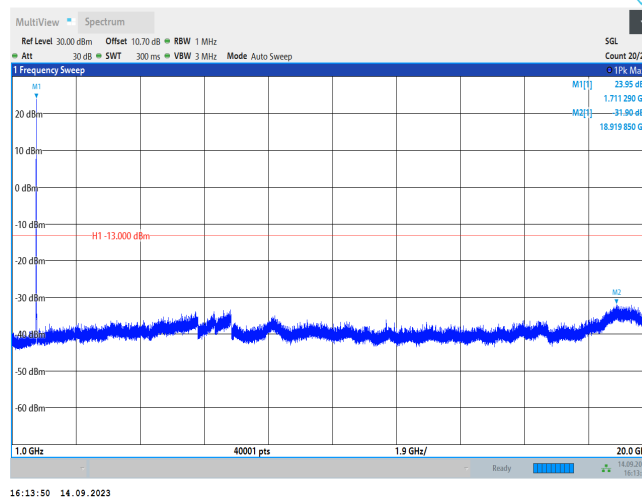
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### Band IV-1312-30~1000MHz



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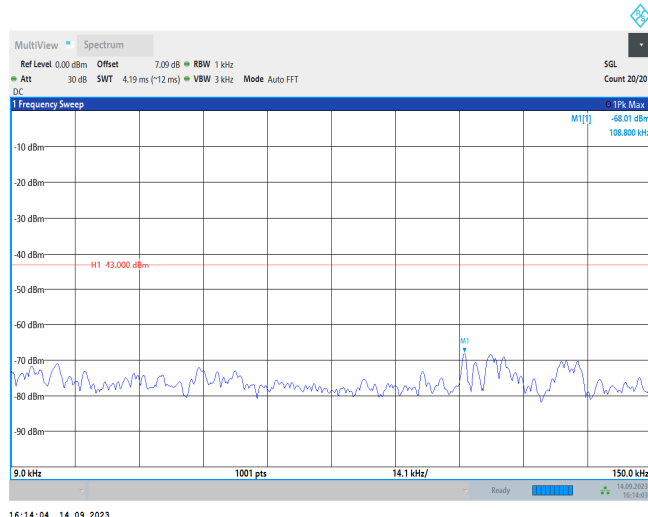
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### Band IV-1413-0.009~0.15MHz



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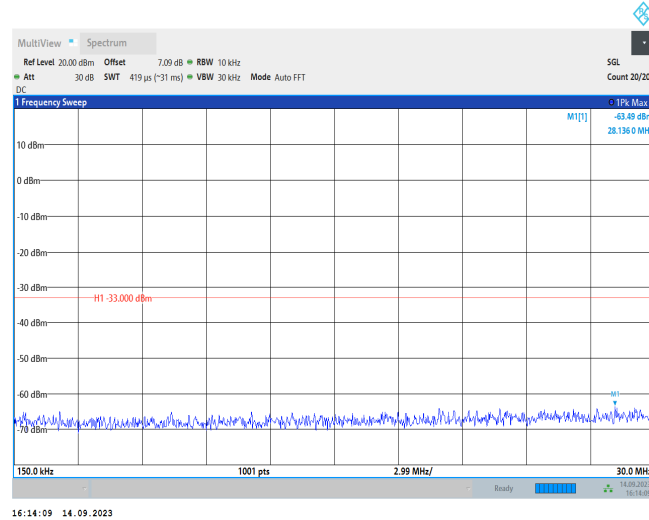


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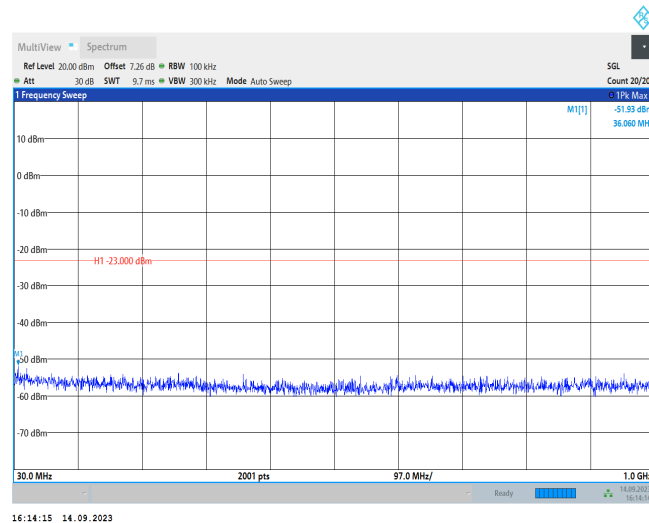
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### Band IV-1413-0.15~30MHz



### Band IV-1413-30~1000MHz



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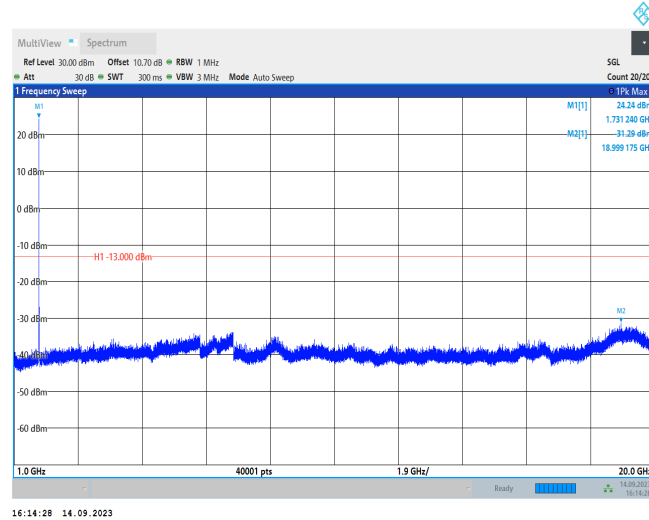
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### Band IV-1413-1000~20000MHz



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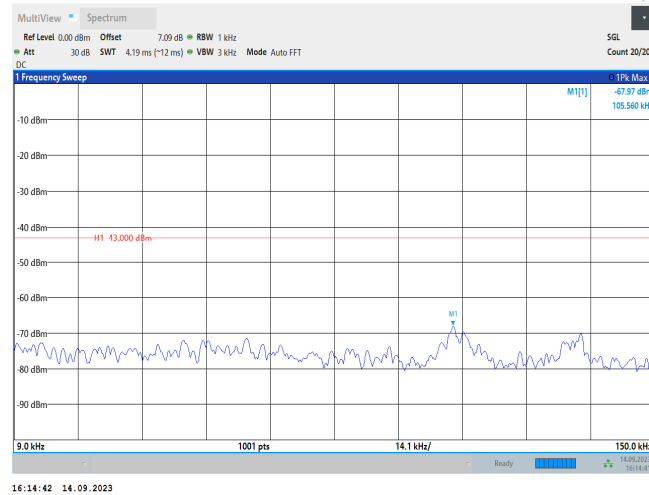


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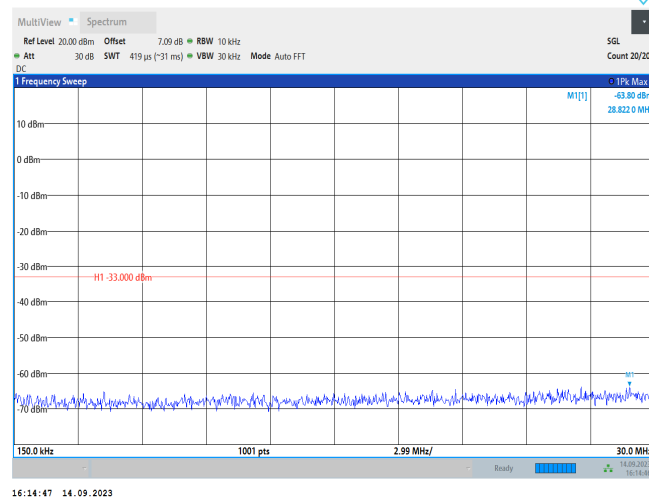
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### Band IV-1513-0.009~0.15MHz



### Band IV-1513-0.15~30MHz



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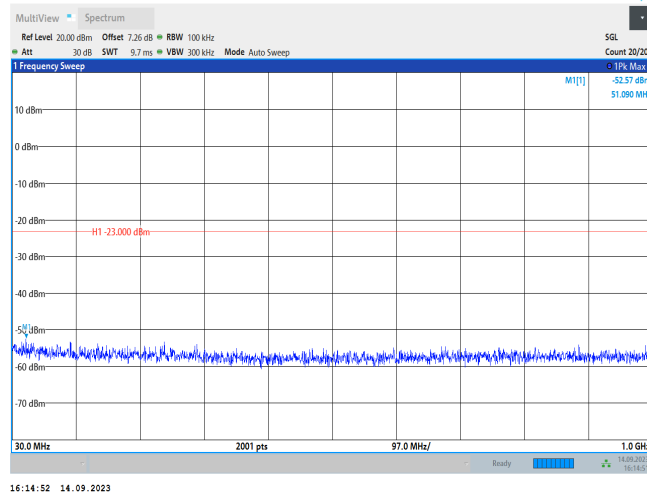


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Band IV-1513-30~1000MHz



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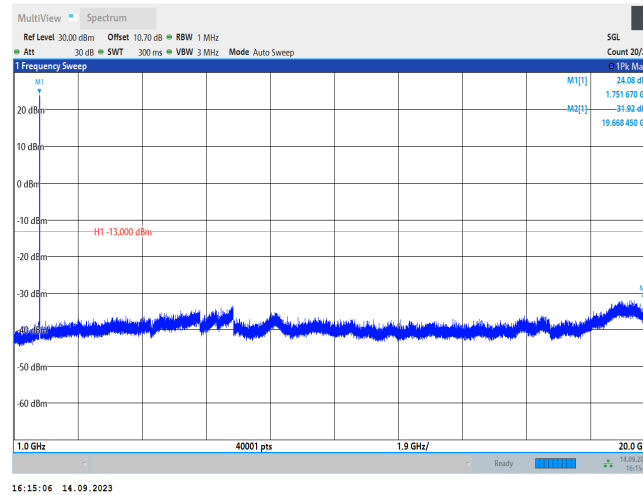


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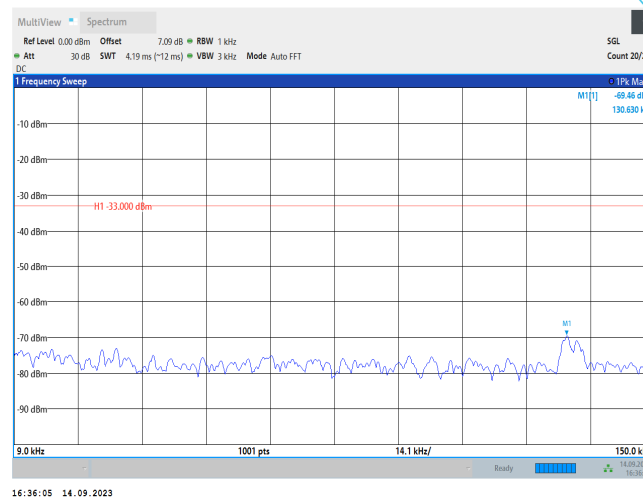
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### Band IV-1513-1000~20000MHz



### Band V-4132-0.009~0.15MHz



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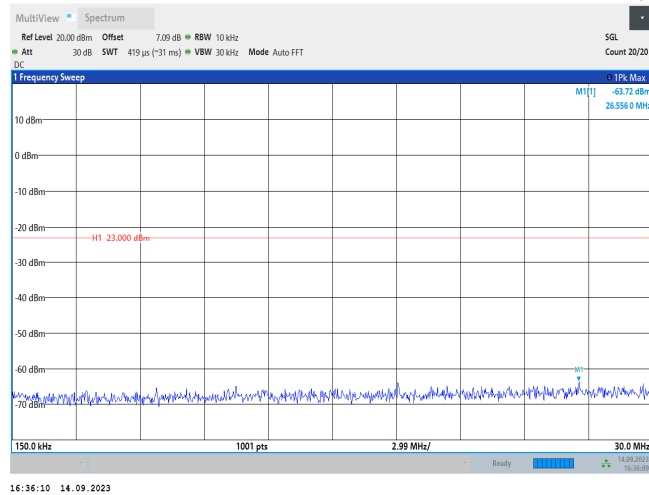


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Band V-4132-0.15~30MHz



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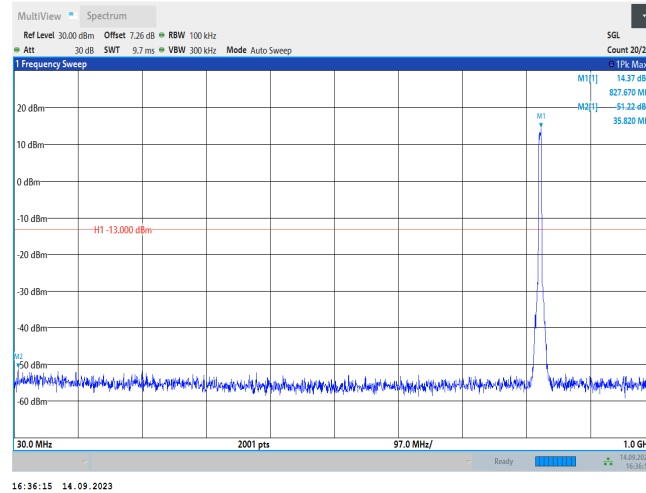
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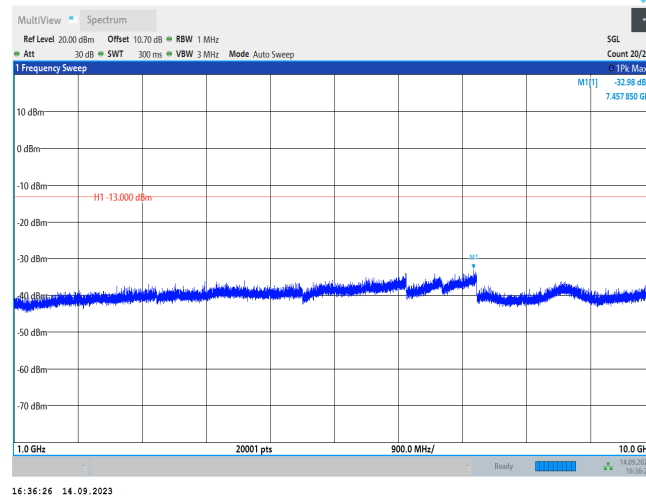
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### Band V-4132-30~1000MHz



### Band V-4132-1000~10000MHz



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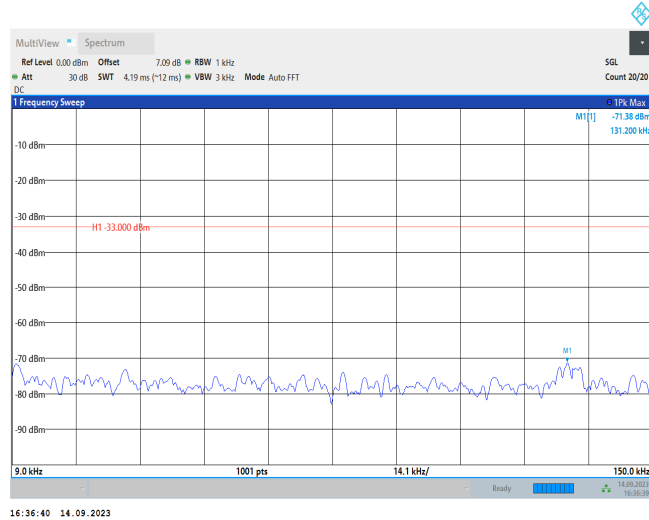


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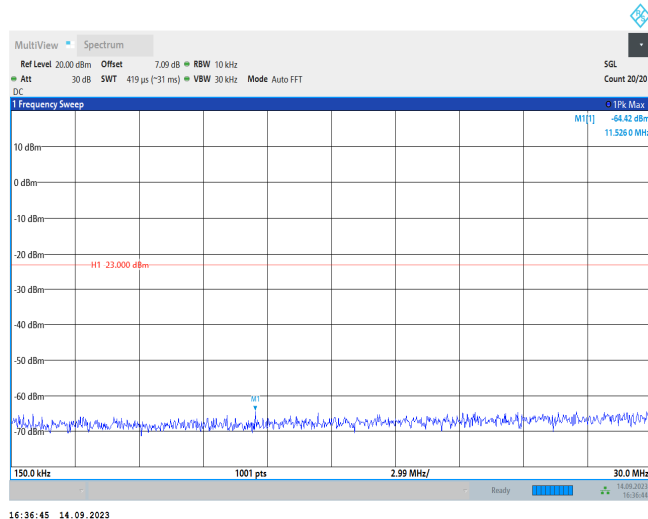
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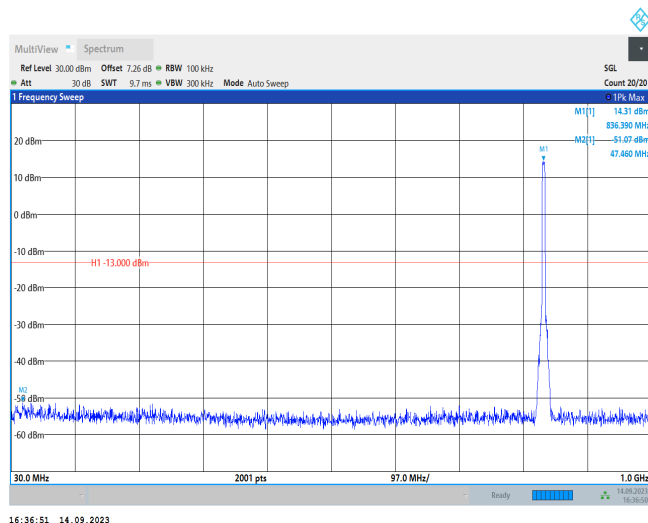
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### Band V-4182-0.15~30MHz



### Band V-4182-30~1000MHz



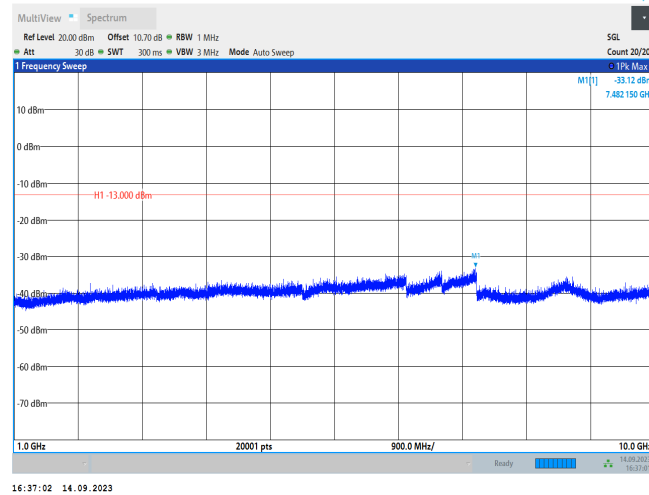


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Band V-4182-1000~10000MHz



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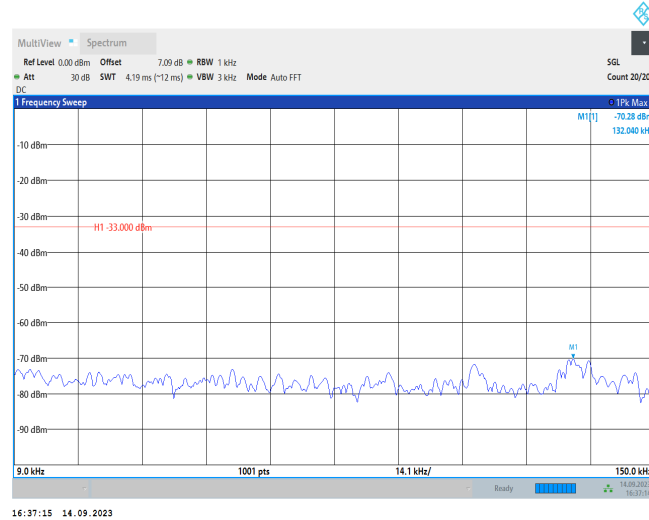


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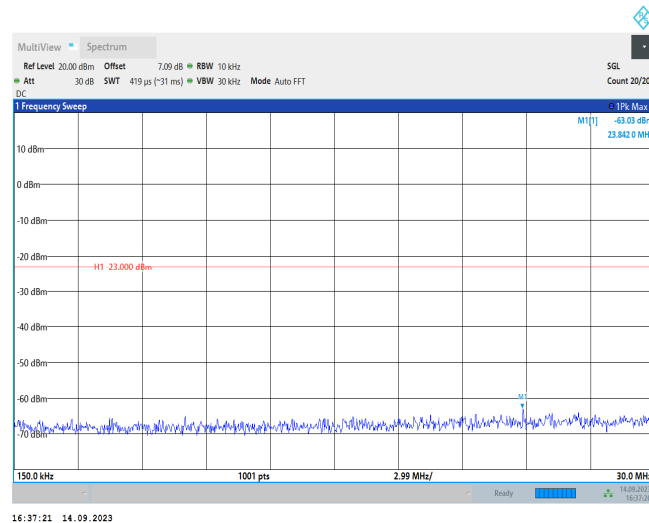
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### Band V-4233-0.009~0.15MHz



### Band V-4233-0.15~30MHz



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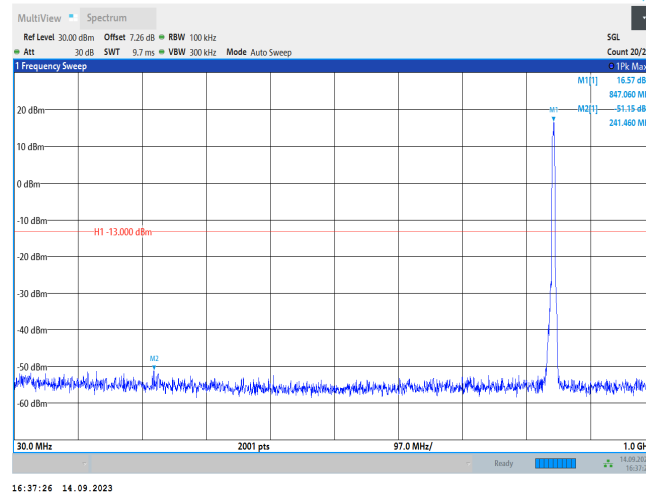


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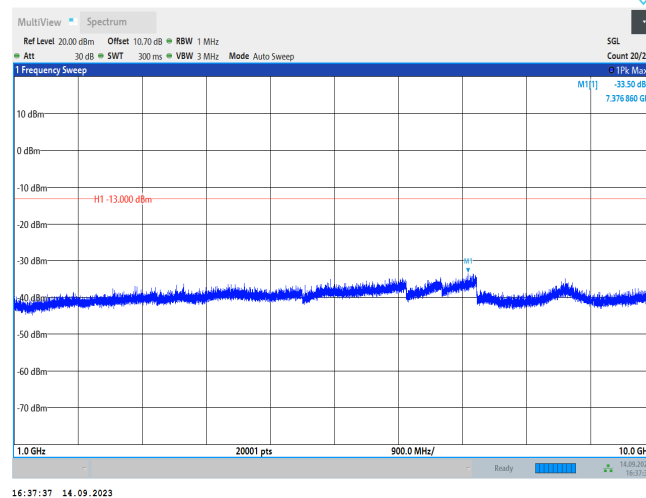
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### Band V-4233-30~1000MHz



### Band V-4233-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = WCDMA\_II ANT 3

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3970	46.97	-44.18	29.86	-62.61	-13.00	49.61	Horizontal
2	5683	45.73	-41.19	32.50	-58.22	-13.00	45.22	Horizontal
3	7869	43.54	-37.61	36.69	-52.64	-13.00	39.64	Horizontal
4	9882.5	42.44	-35.09	38.46	-49.45	-13.00	36.45	Horizontal
5	13560	43.56	-37.90	40.02	-49.58	-13.00	36.58	Horizontal
6	17990.5	41.50	-43.12	48.03	-48.85	-13.00	35.85	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3948	47.04	-44.19	29.89	-62.52	-13.00	49.52	Vertical
2	5425.5	45.43	-41.95	32.35	-59.43	-13.00	46.43	Vertical
3	7423	44.29	-38.28	36.75	-52.50	-13.00	39.50	Vertical
4	10940.5	43.44	-37.25	40.16	-48.91	-13.00	35.91	Vertical
5	13576	43.11	-37.88	40.05	-49.98	-13.00	36.98	Vertical
6	17993.5	41.48	-43.09	48.08	-48.79	-13.00	35.79	Vertical



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**Test Band = WCDMA\_II ANT 3**  
**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3684.5	47.00	-44.49	29.30	-63.45	-13.00	50.45	Horizontal
2	4719	47.03	-42.93	30.56	-60.60	-13.00	47.60	Horizontal
3	6861.5	44.79	-39.32	35.55	-54.24	-13.00	41.24	Horizontal
4	9911.5	43.00	-35.26	38.61	-48.91	-13.00	35.91	Horizontal
5	13569	43.23	-37.89	40.04	-49.88	-13.00	36.88	Horizontal
6	16600	42.12	-35.34	39.50	-48.98	-13.00	35.98	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3122.5	47.77	-45.24	28.81	-63.92	-13.00	50.92	Vertical
2	4304.5	47.57	-43.42	29.54	-61.57	-13.00	48.57	Vertical
3	6834	44.77	-39.40	35.54	-54.35	-13.00	41.35	Vertical
4	9783	42.54	-35.83	38.43	-50.12	-13.00	37.12	Vertical
5	10963	42.88	-37.15	40.14	-49.39	-13.00	36.39	Vertical
6	17989	41.17	-43.13	48.00	-49.22	-13.00	36.22	Vertical



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**Test Band = WCDMA\_II ANT 3**
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3943.5	47.88	-44.19	29.87	-61.70	-13.00	48.70	Horizontal
2	6845.5	44.74	-39.37	35.58	-54.31	-13.00	41.31	Horizontal
3	9019.5	43.16	-36.07	36.62	-51.55	-13.00	38.55	Horizontal
4	10969	42.98	-37.12	40.13	-49.27	-13.00	36.27	Horizontal
5	13576.5	43.11	-37.88	40.05	-49.98	-13.00	36.98	Horizontal
6	17987.5	41.72	-43.14	47.98	-48.70	-13.00	35.70	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3946.5	47.34	-44.19	29.89	-62.22	-13.00	49.22	Vertical
2	5716.5	45.76	-41.19	32.50	-58.19	-13.00	45.19	Vertical
3	7391.5	44.18	-38.33	36.67	-52.74	-13.00	39.74	Vertical
4	9892.5	42.28	-35.02	38.54	-49.46	-13.00	36.46	Vertical
5	13558	43.41	-37.90	40.02	-49.73	-13.00	36.73	Vertical
6	16395.5	42.16	-34.84	38.79	-49.15	-13.00	36.15	Vertical



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Test Band = WCDMA\_IV ANT 3

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3914.5	47.42	-44.20	29.76	-62.28	-13.00	49.28	Horizontal
2	5589.5	45.94	-41.48	32.52	-58.28	-13.00	45.28	Horizontal
3	8446.5	43.48	-36.74	36.41	-52.11	-13.00	39.11	Horizontal
4	9889.5	42.43	-35.04	38.52	-49.35	-13.00	36.35	Horizontal
5	13579.5	42.97	-37.87	40.06	-50.10	-13.00	37.10	Horizontal
6	17995	41.13	-43.08	48.11	-49.10	-13.00	36.10	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3605	47.44	-44.36	28.94	-63.24	-13.00	50.24	Vertical
2	4683.5	46.66	-42.96	30.47	-61.09	-13.00	48.09	Vertical
3	7138	44.10	-38.92	36.28	-53.80	-13.00	40.80	Vertical
4	9515.5	42.71	-35.95	37.80	-50.70	-13.00	37.70	Vertical
5	10969.5	42.63	-37.12	40.13	-49.62	-13.00	36.62	Vertical
6	17998.5	40.80	-43.05	48.17	-49.34	-13.00	36.34	Vertical



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Test Band = WCDMA\_IV ANT 3

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3965	47.22	-44.18	29.87	-62.35	-13.00	49.35	Horizontal
2	5473	45.59	-41.89	32.29	-59.27	-13.00	46.27	Horizontal
3	7195.5	43.89	-38.72	36.58	-53.51	-13.00	40.51	Horizontal
4	9880.5	42.67	-35.11	38.44	-49.26	-13.00	36.26	Horizontal
5	13525.5	43.24	-37.95	39.95	-50.02	-13.00	37.02	Horizontal
6	17991	41.13	-43.11	48.04	-49.20	-13.00	36.20	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3965	47.22	-44.18	29.87	-62.35	-13.00	49.35	Vertical
2	5575	45.76	-41.54	32.40	-58.64	-13.00	45.64	Vertical
3	8252.5	43.84	-37.07	36.50	-51.99	-13.00	38.99	Vertical
4	9891.5	42.53	-35.03	38.53	-49.23	-13.00	36.23	Vertical
5	13574.5	43.13	-37.88	40.05	-49.96	-13.00	36.96	Vertical
6	16481	42.31	-35.47	39.21	-49.21	-13.00	36.21	Vertical



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Test Band = WCDMA\_IV ANT 3

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3940	47.11	-44.19	29.86	-62.48	-13.00	49.48	Horizontal
2	5963	45.48	-41.20	32.93	-58.05	-13.00	45.05	Horizontal
3	8215	43.38	-37.13	36.36	-52.65	-13.00	39.65	Horizontal
4	9911.5	42.49	-35.26	38.61	-49.42	-13.00	36.42	Horizontal
5	13561	43.40	-37.90	40.02	-49.74	-13.00	36.74	Horizontal
6	17994.5	41.10	-43.08	48.10	-49.14	-13.00	36.14	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3969	47.15	-44.18	29.86	-62.43	-13.00	49.43	Vertical
2	5626.5	45.25	-41.36	32.55	-58.82	-13.00	45.82	Vertical
3	7391.5	44.07	-38.33	36.67	-52.85	-13.00	39.85	Vertical
4	9882.5	42.20	-35.09	38.46	-49.69	-13.00	36.69	Vertical
5	13555	43.19	-37.91	40.01	-49.97	-13.00	36.97	Vertical
6	17986	41.38	-43.15	47.95	-49.08	-13.00	36.08	Vertical



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**Test Band = WCDMA\_V ANT 1**  
**Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1164.5	47.61	-47.83	24.53	-70.95	-13.00	57.95	Horizontal
2	1979	47.03	-46.97	26.08	-69.12	-13.00	56.12	Horizontal
3	2561	47.39	-46.37	27.82	-66.42	-13.00	53.42	Horizontal
4	4298.5	46.19	-42.90	29.51	-62.46	-13.00	49.46	Horizontal
5	7365	43.71	-38.50	36.56	-53.49	-13.00	40.49	Horizontal
6	9911	42.02	-35.33	38.61	-49.96	-13.00	36.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1357	47.49	-47.60	25.07	-70.30	-13.00	57.30	Vertical
2	2108	47.49	-46.88	26.75	-67.90	-13.00	54.90	Vertical
3	3085	47.10	-45.87	28.87	-65.16	-13.00	52.16	Vertical
4	4534	46.63	-43.10	29.67	-62.06	-13.00	49.06	Vertical
5	6035.5	44.89	-40.63	33.36	-57.64	-13.00	44.64	Vertical
6	9881.5	42.39	-35.33	38.45	-49.75	-13.00	36.75	Vertical



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Test Band = WCDMA\_V ANT 1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1383.5	47.46	-47.47	24.97	-70.30	-13.00	57.30	Horizontal
2	2190	47.53	-47.00	26.82	-67.91	-13.00	54.91	Horizontal
3	3051.5	46.96	-45.79	28.80	-65.29	-13.00	52.29	Horizontal
4	4449.5	46.26	-43.16	30.10	-62.06	-13.00	49.06	Horizontal
5	6333	44.71	-40.80	33.76	-57.59	-13.00	44.59	Horizontal
6	9943.5	41.97	-35.46	38.64	-50.11	-13.00	37.11	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.5	47.15	-47.67	25.04	-70.74	-13.00	57.74	Vertical
2	2082	47.16	-46.88	26.62	-68.36	-13.00	55.36	Vertical
3	2714	46.95	-46.16	28.03	-66.44	-13.00	53.44	Vertical
4	3958.5	46.79	-44.14	29.88	-62.73	-13.00	49.73	Vertical
5	6592	44.20	-40.17	34.75	-56.48	-13.00	43.48	Vertical
6	9910	42.07	-35.33	38.61	-49.91	-13.00	36.91	Vertical



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**Test Band = WCDMA\_V ANT 1**  
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1042.5	47.37	-47.05	24.16	-70.78	-13.00	57.78	Horizontal
2	1632.5	47.43	-47.55	25.36	-70.02	-13.00	57.02	Horizontal
3	2558.5	47.41	-46.39	27.82	-66.42	-13.00	53.42	Horizontal
4	3956	46.45	-44.15	29.89	-63.07	-13.00	50.07	Horizontal
5	6457	44.50	-40.62	33.87	-57.51	-13.00	44.51	Horizontal
6	9773	41.67	-35.71	38.39	-50.91	-13.00	37.91	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1340	47.39	-47.68	25.00	-70.55	-13.00	57.55	Vertical
2	1939.5	47.24	-47.03	25.48	-69.57	-13.00	56.57	Vertical
3	2979.5	46.83	-45.73	28.48	-65.68	-13.00	52.68	Vertical
4	4791.5	45.90	-42.89	30.75	-61.50	-13.00	48.50	Vertical
5	7379.5	43.78	-38.44	36.62	-53.30	-13.00	40.30	Vertical
6	9913	41.92	-35.34	38.61	-50.07	-13.00	37.07	Vertical



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Test Band = WCDMA\_II ANT 4

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3817	47.50	-44.81	29.77	-62.80	-13.00	49.80	Horizontal
2	5649	45.44	-41.29	32.50	-58.61	-13.00	45.61	Horizontal
3	7352	43.54	-38.57	36.51	-53.78	-13.00	40.78	Horizontal
4	9344.5	41.48	-35.75	37.37	-52.16	-13.00	39.16	Horizontal
5	13645.5	42.06	-37.92	40.15	-50.97	-13.00	37.97	Horizontal
6	16386	40.89	-34.90	38.76	-50.51	-13.00	37.51	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3914.5	47.03	-44.20	29.76	-62.67	-13.00	49.67	Vertical
2	5582	45.23	-41.51	32.46	-59.08	-13.00	46.08	Vertical
3	7349.5	42.65	-38.58	36.50	-54.69	-13.00	41.69	Vertical
4	9908.5	41.47	-35.18	38.61	-50.36	-13.00	37.36	Vertical
5	13560.5	41.98	-37.90	40.02	-51.16	-13.00	38.16	Vertical
6	16359	41.24	-35.05	38.68	-50.39	-13.00	37.39	Vertical



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**Test Band = WCDMA\_II ANT 4**  
**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3820	47.10	-44.78	29.76	-63.18	-13.00	50.18	Horizontal
2	5613.5	45.14	-41.40	32.57	-58.95	-13.00	45.95	Horizontal
3	7409.5	43.47	-38.28	36.72	-53.35	-13.00	40.35	Horizontal
4	9889.5	41.56	-35.04	38.52	-50.22	-13.00	37.22	Horizontal
5	13568.5	42.06	-37.89	40.04	-51.05	-13.00	38.05	Horizontal
6	17989	39.80	-43.13	48.00	-50.59	-13.00	37.59	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3899	46.91	-44.21	29.70	-62.86	-13.00	49.86	Vertical
2	5696	44.95	-41.15	32.50	-58.96	-13.00	45.96	Vertical
3	7480	43.40	-38.29	36.86	-53.29	-13.00	40.29	Vertical
4	8975	41.83	-36.09	36.80	-52.72	-13.00	39.72	Vertical
5	11098.5	42.39	-37.58	40.20	-50.25	-13.00	37.25	Vertical
6	17999	39.61	-43.05	48.18	-50.52	-13.00	37.52	Vertical



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**Test Band = WCDMA\_II ANT 4**  
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.5	47.60	-44.81	29.77	-62.70	-13.00	49.70	Horizontal
2	5682	45.55	-41.19	32.50	-58.40	-13.00	45.40	Horizontal
3	7406	43.67	-38.28	36.71	-53.16	-13.00	40.16	Horizontal
4	11113.5	42.60	-37.81	40.20	-50.27	-13.00	37.27	Horizontal
5	13568	42.00	-37.89	40.04	-51.11	-13.00	38.11	Horizontal
6	16399.5	40.88	-34.82	38.80	-50.40	-13.00	37.40	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4391	46.60	-43.40	30.06	-62.00	-13.00	49.00	Vertical
2	5652	45.13	-41.28	32.50	-58.91	-13.00	45.91	Vertical
3	7419.5	43.43	-38.28	36.74	-53.37	-13.00	40.37	Vertical
4	9886.5	41.27	-35.06	38.49	-50.56	-13.00	37.56	Vertical
5	13562.5	42.27	-37.90	40.03	-50.86	-13.00	37.86	Vertical
6	17987	40.10	-43.14	47.97	-50.33	-13.00	37.33	Vertical



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Test Band = WCDMA\_IV ANT 4

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3936	46.90	-44.19	29.84	-62.71	-13.00	49.71	Horizontal
2	5638	45.19	-41.33	32.52	-58.88	-13.00	45.88	Horizontal
3	7402	43.99	-38.28	36.70	-52.85	-13.00	39.85	Horizontal
4	9889.5	41.83	-35.04	38.52	-49.95	-13.00	36.95	Horizontal
5	13568	41.99	-37.89	40.04	-51.12	-13.00	38.12	Horizontal
6	16402	40.74	-34.84	38.81	-50.55	-13.00	37.55	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3716	47.71	-44.58	29.40	-62.73	-13.00	49.73	Vertical
2	6048.5	44.70	-40.91	33.49	-57.98	-13.00	44.98	Vertical
3	7410	43.46	-38.28	36.72	-53.36	-13.00	40.36	Vertical
4	9541.5	41.90	-35.86	37.80	-51.42	-13.00	38.42	Vertical
5	13569.5	42.09	-37.89	40.04	-51.02	-13.00	38.02	Vertical
6	16395.5	40.53	-34.84	38.79	-50.78	-13.00	37.78	Vertical



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Test Band = WCDMA\_IV ANT 4

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3943	46.68	-44.19	29.87	-62.90	-13.00	49.90	Horizontal
2	5620	45.30	-41.38	32.56	-58.78	-13.00	45.78	Horizontal
3	7414	43.26	-38.28	36.73	-53.55	-13.00	40.55	Horizontal
4	9885.5	41.23	-35.07	38.48	-50.62	-13.00	37.62	Horizontal
5	13566	41.85	-37.89	40.03	-51.27	-13.00	38.27	Horizontal
6	16482	40.72	-35.48	39.21	-50.81	-13.00	37.81	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3685	47.36	-44.49	29.30	-63.09	-13.00	50.09	Vertical
2	5037.5	45.49	-42.65	31.50	-60.92	-13.00	47.92	Vertical
3	5649.5	45.67	-41.29	32.50	-58.38	-13.00	45.38	Vertical
4	7432	43.55	-38.28	36.76	-53.23	-13.00	40.23	Vertical
5	11097	42.31	-37.57	40.20	-50.32	-13.00	37.32	Vertical
6	16398	40.47	-34.83	38.79	-50.83	-13.00	37.83	Vertical



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**Test Band = WCDMA\_IV ANT 4**  
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3689.5	47.12	-44.49	29.30	-63.33	-13.00	50.33	Horizontal
2	5129	45.28	-42.53	31.67	-60.84	-13.00	47.84	Horizontal
3	7400	43.71	-38.28	36.70	-53.13	-13.00	40.13	Horizontal
4	9888.5	41.03	-35.05	38.51	-50.77	-13.00	37.77	Horizontal
5	13672.5	41.67	-37.96	40.17	-51.38	-13.00	38.38	Horizontal
6	16351	40.63	-35.09	38.65	-51.07	-13.00	38.07	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3825	47.32	-44.75	29.75	-62.94	-13.00	49.94	Vertical
2	5616.5	44.84	-41.39	32.57	-59.24	-13.00	46.24	Vertical
3	7185	42.06	-38.75	36.54	-55.41	-13.00	42.41	Vertical
4	8988.5	41.89	-36.08	36.75	-52.70	-13.00	39.70	Vertical
5	11100	42.16	-37.59	40.20	-50.49	-13.00	37.49	Vertical
6	16363	40.50	-35.02	38.69	-51.09	-13.00	38.09	Vertical



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**Test Band = WCDMA\_V ANT 0**  
**Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1396	47.41	-47.41	24.92	-70.34	-13.00	57.34	Horizontal
2	2242.5	47.35	-46.85	26.82	-67.94	-13.00	54.94	Horizontal
3	3019.5	46.90	-45.71	28.68	-65.39	-13.00	52.39	Horizontal
4	4337	45.92	-43.03	29.80	-62.57	-13.00	49.57	Horizontal
5	6050	43.68	-40.59	33.50	-58.67	-13.00	45.67	Horizontal
6	9911.5	40.59	-35.33	38.61	-51.39	-13.00	38.39	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1440	47.73	-47.48	25.22	-69.79	-13.00	56.79	Vertical
2	2247	46.99	-46.84	26.81	-68.30	-13.00	55.30	Vertical
3	3019.5	47.18	-45.71	28.68	-65.11	-13.00	52.11	Vertical
4	4432.5	45.74	-43.20	30.10	-62.62	-13.00	49.62	Vertical
5	7420	42.79	-38.36	36.74	-54.09	-13.00	41.09	Vertical
6	9889.5	40.68	-35.32	38.52	-51.38	-13.00	38.38	Vertical



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**Test Band = WCDMA\_V ANT 0**  
**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1153	47.72	-47.81	24.51	-70.84	-13.00	57.84	Horizontal
2	1780.5	47.75	-47.35	25.24	-69.62	-13.00	56.62	Horizontal
3	3083	46.84	-45.86	28.87	-65.41	-13.00	52.41	Horizontal
4	4317	45.77	-42.95	29.64	-62.80	-13.00	49.80	Horizontal
5	7376.5	42.99	-38.45	36.61	-54.11	-13.00	41.11	Horizontal
6	9931.5	40.68	-35.41	38.63	-51.36	-13.00	38.36	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1120.5	47.73	-47.75	24.38	-70.90	-13.00	57.90	Vertical
2	1790.5	47.53	-47.34	25.32	-69.75	-13.00	56.75	Vertical
3	2953	47.34	-45.82	28.32	-65.42	-13.00	52.42	Vertical
4	4421	46.05	-43.22	30.10	-62.33	-13.00	49.33	Vertical
5	7416.5	42.98	-38.35	36.73	-53.90	-13.00	40.90	Vertical
6	9941.5	41.09	-35.45	38.64	-50.98	-13.00	37.98	Vertical



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**Test Band = WCDMA\_V ANT 0**  
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1331.5	46.90	-47.73	24.92	-71.17	-13.00	58.17	Horizontal
2	2343.5	47.02	-46.63	27.54	-67.33	-13.00	54.33	Horizontal
3	3561	46.31	-44.86	28.98	-64.83	-13.00	51.83	Horizontal
4	5498	44.21	-42.03	32.39	-60.69	-13.00	47.69	Horizontal
5	7410.5	42.66	-38.35	36.72	-54.23	-13.00	41.23	Horizontal
6	9891	40.51	-35.31	38.53	-51.53	-13.00	38.53	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1002	47.60	-46.58	24.48	-69.76	-13.00	56.76	Vertical
2	1762	47.85	-47.37	25.10	-69.68	-13.00	56.68	Vertical
3	2690	46.97	-46.18	27.98	-66.49	-13.00	53.49	Vertical
4	3634.5	46.29	-44.48	29.18	-64.27	-13.00	51.27	Vertical
5	5725	44.32	-41.28	32.50	-59.72	-13.00	46.72	Vertical
6	9956.5	40.74	-35.51	38.66	-51.37	-13.00	38.37	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
Band II	9400	VL	NT	3.73	0.001984	PASS
Band II	9400	VN	NT	3.25	0.001729	PASS
Band II	9400	VH	NT	4.16	0.002213	PASS
Band IV	1413	VL	NT	0.09	0.000052	PASS
Band IV	1413	VN	NT	0.12	0.000069	PASS
Band IV	1413	VH	NT	-0.47	-0.000271	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	0.57	0.000681	±2.5	PASS
Band V	4182	VN	NT	0.36	0.000430	±2.5	PASS
Band V	4182	VH	NT	0.48	0.000574	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	3.41	0.001814	PASS
Band II	9400	NV	-20	4.22	0.002245	PASS
Band II	9400	NV	-10	3.04	0.001617	PASS
Band II	9400	NV	0	0.91	0.000484	PASS
Band II	9400	NV	10	4.01	0.002133	PASS
Band II	9400	NV	20	2.21	0.001176	PASS
Band II	9400	NV	30	3.10	0.001649	PASS
Band II	9400	NV	40	3.29	0.001750	PASS
Band II	9400	NV	50	3.26	0.001734	PASS
Band IV	1413	NV	-30	-1.04	-0.000600	PASS
Band IV	1413	NV	-20	-0.56	-0.000323	PASS
Band IV	1413	NV	-10	1.62	0.000935	PASS
Band IV	1413	NV	0	-1.47	-0.000848	PASS
Band IV	1413	NV	10	1.17	0.000675	PASS
Band IV	1413	NV	20	-0.18	-0.000104	PASS
Band IV	1413	NV	30	0.53	0.000306	PASS
Band IV	1413	NV	40	0.91	0.000525	PASS
Band IV	1413	NV	50	-1.67	-0.000964	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	1.62	0.001937	±2.5	PASS
Band V	4182	NV	-20	0.93	0.001112	±2.5	PASS
Band V	4182	NV	-10	1.17	0.001399	±2.5	PASS
Band V	4182	NV	0	1.32	0.001578	±2.5	PASS
Band V	4182	NV	10	0.46	0.000550	±2.5	PASS
Band V	4182	NV	20	1.32	0.001578	±2.5	PASS
Band V	4182	NV	30	0.67	0.000801	±2.5	PASS
Band V	4182	NV	40	1.01	0.001208	±2.5	PASS
Band V	4182	NV	50	0.82	0.000980	±2.5	PASS

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